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FEBRUARY 8, 1930

Vol. CXII.



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TO COPY OTHERS OR TO IMPRESS.

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LIKE THAT
OF THE OAK



BECAUSE WE FIND IT NECESSARY

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Maw's Page



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1807

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That was in 1807, nearly a quarter of a century before Shillibeer introduced the first London omnibus, and Stephenson's "Rocket" won the prize at the famous Rainhill trials.

Although the House did not actually see the introduction of the steam engine and cotton spinning frame, it lived through the riots which devastated the country as a result of these inventions. These were the days of Industrial Renaissance, and Maws may, therefore, justly be said to date from the beginning of modern commerce. The Telegraph and Telephone, of course, came long after. They are new compared with Maws.

But age is not always indicative of excellency. The great thing is to grow old gracefully, or better still in business, to be like Peter Pan, and refuse to grow old at all.

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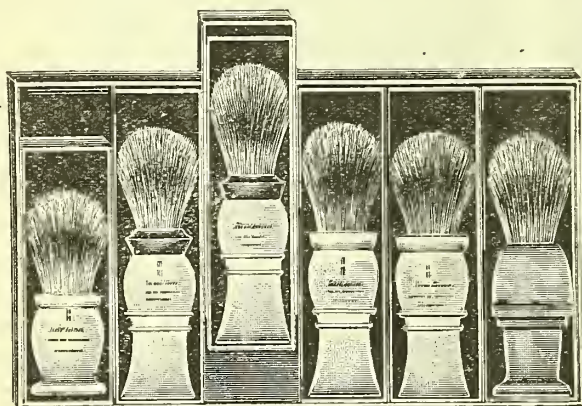
That policy is one of the few things which do not admit of improvement. It therefore stands, and we like to think that it is probably one of the chief reasons why Maws have served four generations of Pharmacists during the reign of five sovereigns, and over a period of a century and a quarter.

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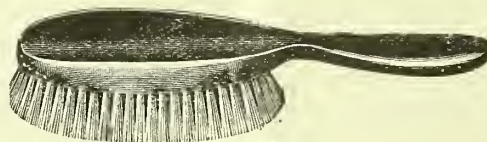
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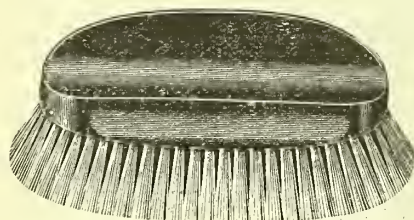
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REAL EBONY.

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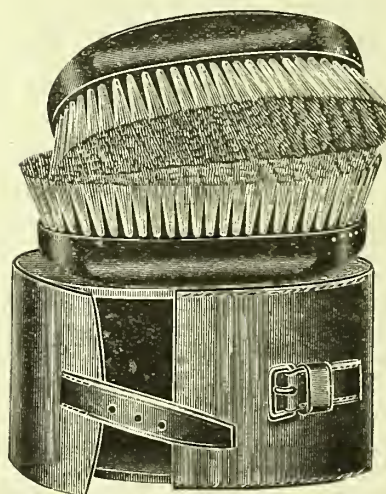
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SUPER STIFF
BRISTLE.

Per pair 10/6

Single Brushes,
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*All this Blended in a Calculated Ratio,
in a Highly Agreeable Fluid.*

THIS IS 'PANOPEPTON'—A DYNAMIC FOOD

In the preparation of 'Panopepton' the beef is submitted to the action of gastric juice extract at normal temperature and acidity to a complete conversion of the proteins; the clarified solution concentrated in vacuo.

The hard wheat grain, well-cooked like a cereal, is subjected to both proteolytic and amylolytic digestion by a freshly prepared pancreas gland extract at normal media and temperature, until free from coaguable protein and free from starch, the clarified solution concentrated in vacuo. The soluble concentrates of the beef and wheat are combined on the basis of assay.

Thus in 'Panopepton' is assembled this designed comprehensive variety of protein derivatives, highly diffusible, physiologically complementary, mutually helpful in nutrition; of the native wheat-berry—albumen (vegetable), gluten-casein, gluten-fibrin, gliadin, mucedin; of beef—albumen, myosin, connective tissue-protein (source of gelatin), beef extractives, creatin, creatinin, sarcin, xanthin and inosin. With the natively soluble associated principles, mineral, etc., as well as these principles of the gastric and pancreatic gland concentrates employed in the hydrolysis of the basic food.

'Panopepton' is a bright, rather dense, deep amber coloured fluid, with a characteristic bouquet, grateful to the palate and stomachic. The finished product contains 24% of total dry solids.

Protein	6.50
Carbohydrates	16.50
Ash.....	I. — 24.00

'Panopepton' is of a uniform standardised composition; it is highly agreeable; requires no preparation. It is a potent restorative and emergency food in serious straits; a fortunate recourse for the invalid.

'Panopepton' is a dynamic food.

'Panopepton' is most acceptable taken cold, undiluted.

'Panopepton' is supplied in 12-oz. bottles.

Fairchild Bros. & Foster,

*Makers of original products suggested
by the progress of science in medicine.*

A SHOWCARD WILL BE SENT ON REQUEST. The sale of 'Panopepton' requires a Wine Licence.

Originated and Manufactured by
Fairchild Bros. & Foster (Inc. N.Y.)
NEW YORK, and 65 Holborn Viaduct,
LONDON, E.C.1.

Agents:
Burroughs, Wellcome & Co.
LONDON, SYDNEY and CAPE TOWN.

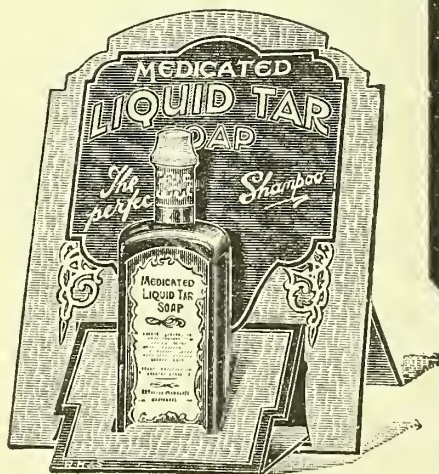
HOVENDEN'S
PINE TAR WET SHAMPOO
 (MEDICATED)

The only one of
 its kind on the
 market

**Absolutely
 no
 Sediment**

No. 4755 10/6 doz.

*Name
 and address free
 for 6 doz. orders*



No. 4755.



Display showcard supplied free

R. HOVENDEN & SONS, LTD.

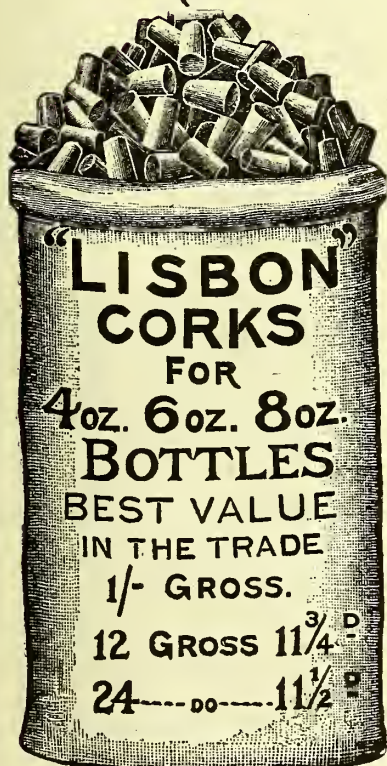
LONDON : 29-33 Berners Street, W.1 and 89-95 City Road, E.C.1

Telephone : Museum 2810 (4 lines) 7553 (3 lines)

Telephone : Clerkenwell 7601 (3 lines)

CORKS

which
never
let you
down



	6 gross.	12 gross.	24 gross.
N.S., for 6 oz. and 8 oz., cheap for Insurance Scripts per gross	7½d.	7½d.	7d.
Madrid, for 1 dr., 2 dr., ½ oz. and 1 oz. vials ..	10½d.	10½d.	10d.
Do. XX, same size as Madrid, but superior quality	1/-	11½d.	11½d.
Faro, for 2 oz. and 3 oz. bottles	11d.	10½d.	10½d.
Do. XX, same size as Faro, but superior quality	1/3	1 2/3	1 2/3
Braga, long tapering, for 2 oz. and 3 oz. bottles	1/-	11½d.	11½d.
Do. XX, same size as Braga, but superior quality	1/4	1 3/4	1 3/4
Lisbon, assorted for 6 oz. and 8 oz. bottles ..	1/-	11½d.	11½d.
Do. XX, superior quality	1/4	1 3/4	1 3/4
Lisbon, 6 oz. only	11d.	10½d.	10½d.
Do. XX, superior quality	1/4	1 3/4	1 3/4
Lisbon, 8 oz. only	1/1	1 0/3	1 0/3
Do. XX, superior quality	1/4	1 3/4	1 3/4
Cordova, for 8 oz. and 10 oz. bottles ..	1/4	1 3/4	1 3/4
Do. XX, same size as Cordova, but superior quality	1 8	1 7/4	1 7/4
Cadiz, for 10 oz., 12 oz., 16 oz. bottles ..	1/4	1 3/4	1 3/4
Do. XX, same size as Cadiz, but superior quality	1/9	1 8/4	1 8/4
Special long tapered, for 10 oz., 12 oz. bottles	2/-	1 11/4	1 11/4
Lugo, for 20 oz. and 30 oz. bottles ..	2/-	1 11/4	1 11/4
Ginger Beers, XX, quart size	1/-	11½d.	11½d.
Do. XXX, pint size	1/-	11½d.	11½d.
Do. XXX, quart size	1/3	1 2/4	1 2/4
Wines, pints	4/-	3 11/4	3 11/4
Do. quarts	4 6	4 5/4	4 5/4
Emulsions, for W.M. Emulsion	3 3	3 2/4	3 2/4
Jars, for 1 gallon jars	3 3	3 2/4	3 2/4
Do. for 2 gallon jars	3 6	3 5/4	3 5/4

CORK SHIVES cut to suit all requirements.

To AYRTON OVAL users

The cork which fits one AYRTON OVAL will suit every AYRTON OVAL of that size—such is the value of standard corkage. We therefore offer a list of suitable corks for every size of AYRTON OVAL

For 1 oz. and 2 oz. AYRTON OVALS	use	BRAGA CORKS
„ 3 oz. and 4 oz. AYRTON OVALS	„	LISBON 6 oz. CORKS
„ 6 oz.	„	LISBON 8 oz. CORKS
„ 8, 10 and 12 oz. AYRTON OVALS	„	CADIZ CORKS
„ 16 oz. and 20 oz. AYRTON OVALS	„	LUGO CORKS

AYRTON, SAUNDERS & CO., LTD.
34 Hanover Street - - - LIVERPOOL

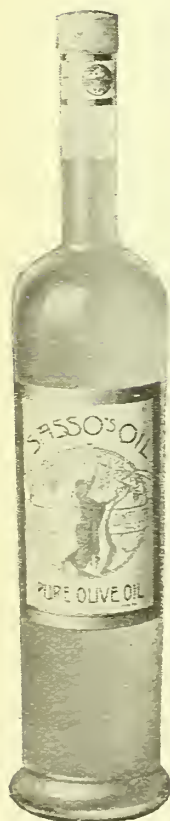
SASSO

OLIVE OIL

the standard of quality



With Olive Oil at its present low price, there will be an increased consumption this year and the public will be more particular about quality. "SASSO" OLIVE OIL will produce a permanent increase in sales owing to its never varying exquisite flavour and bouquet. Write for new season's samples and prices. It will pay to make a contract now to cover part of the year's requirements.



Producers:

P. SASSO & FIGLI
ONEGLIA, ITALY

Sole Distributors for
the United Kingdom:

FREDK. BOEHM LTD.
17 Jewry St., London, E.C.3





WALLFLOWER

A "Distol" of old-world Charm

ONE of the oldest, and still one of the most popular of the forty-five "Distol" Ottos which enable the Chemist to make perfumes of excellent quality without locking up capital in expensive stocks of Spirit.

"Distols" appeal to the busy Chemist because their use involves no blending, filtering, tinting, distillation or other time-absorbing process.

"Distol" Ottos are ideal for your own proprietary perfumes and distinctive toilet preparations.

Ask for samples of perfumes made from any six.

TO EXPORT BUYERS

All orders and enquiries should be addressed to our Sole Export Agents
Wm. ALFRED JONES Ltd., West India House, Liverpool

THOMAS KERFOOT & CO. LTD.
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

D:578

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GUARANTEED PURE ENGLISH PEPPERMINT OIL

Grown & Distilled from Mitcham Plants

By

Chivers & Sons Ltd.,
Histon, Cambridge, England.

SAMPLE AND QUOTATION ON REQUEST FROM THE SOLE SELLING AGENTS
BRUCE STARKE & CO., 16 WATER LANE, GREAT TOWER ST., LONDON, E.C.3

OLEO-RESIN OF PYRETHRUM

NATURAL PYRETHRIN.

ALCOHOL FREE, HIGHEST CONCENTRATION, SOLUBLE in PETROL, ALCOHOL, &c.

THE STRONGEST INSECTICIDE IN THE WORLD

Harmless for Man and for Animals.

This concentration makes easy and economic the preparation of Domestic Insecticides, Agricultural Insecticides, Pharmaceutical and Veterinary Vermifuges, Paint for Ships' Bottoms, &c.

Essence of Pyrethrum, 30x.

Fluid Extract of Male Fern, 24 and 48% filicin.
Essential Oils, &c.

Société Française de Produits Aromatiques,

Anc. Ets. **GATTEFOSSÉ,**

156 Route de Crémieu, **VILLEURBANNE**
(France), and 38 Rue du Mont Thabor, **PARIS**

London Agents:

Forwood Bros. & Donaldson, Ltd.
ROPEMAKER ST., FINSBURY, E.C.2

TATCHO Sample Size 6^D

THE
HAIR RESTORER

PROMOTES, PRODUCES,
BEAUTIFIES THE HAIR

6 Bottles in Case for
Counter Display,
4/- PER DOZ.

1/3 size .. 12/6 per doz.
2/9 size .. 26/- per doz.

TATCHO Laboratories, 5 Great Queen Street, London, W.C.2

Every bottle
gives you
PROFIT 1/3

and repeats always
follow - - - -

Perm Brow, the new
perfectly harmless
liquid eyebrow beauti-
fier, blackens eyebrows
and lashes to an allur-
ing darkness and being
waterproof it stays on.
Its unique qualities
have influenced recom-
mendation and repeat
orders from almost
every user. Get a stock
to-day, and give it a
display—profits will
come easily.

Obtainable from all
Wholesale Houses or
direct from—

MIRUS, LTD.,
West End Sales
Office:
53a Maddox St.,
W.1.

**MAGNETIC
EYES
HAVE
WONDROUS
CHARM**



Wholesale

18/-

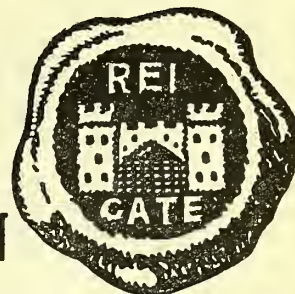
per doz.

Retail

2/9

per bottle.

OIL of LEMON
SOLUBLE OIL of LEMON
TERPENELESS OIL of LEMON
SESQUITERPENELESS OIL of LEMON



The high standard of **QUALITY** invariably maintained by each of these Lemon products is such as to ensure true **ECONOMY** in use—as well as the maximum of effectiveness for its individual purpose. Therefore, *if it's Lemon, ask*

White, Tomkins & Courage Ltd.

Telephone : Reigate 480

Telegrams : Esswhite, Reigate.

REIGATE, Surrey.

MYSORE GOVERNMENT
SANDALWOOD OIL

DISTILLED FROM SANTALUM ALBUM, LINN.

This Mark is the



GUARANTEE

Trade Commissioner for Mysore in London
Grand Buildings, Trafalgar Square, LONDON, W.C.2

Telephone : Gerrard 4412.

INTRODUCING

WESTMINSTER COLOGNE

FOR
BATH & TOILET

QUALITY SUPERB!

Guaranteed 80% Spirit (no Isopropyl Alcohol used). Exceptionally fragrant and definitely refreshing.

PRICES POPULAR!!

Retails 2 - 4 oz., 3 6 8 oz.

PRICES PROTECTED BY P.A.T.A.

PROFIT 50% ^{nett} on SALES!!!

Costs 12 - doz. 4 oz., 20 - doz. 8 oz.

Attractive Display Material Possessing Forceful
SALES Appeal Supplied Gratis on Request.

Stocked and Supplied only by usual
WHOLESALE HOUSES including

WM. EDWARDS & SONS,
14 18 Nile St., City Road, London, N.1

A. B. CURTIS,
Kingsland Works, Kingsland Rd., London, E.2

W. DOWSON & CO.,
Gamage Buildings, Holborn, London, E.C.

OSBORNE, GARRETT & CO., Ltd.,
51/54 Frith Street, London, W.1

OCEAN TRADING CO., Ltd.,
40 Orchard Lane, Southampton.

S. COOK, 76 Radford Road, Nottingham.

BARNES & CROMPTON LIMITED,
Ribble Bank Mills, Preston, Lancs.

Note.—We do not Supply direct to Retail Trade, but
TESTING SAMPLES WILL BE GLADLY SENT
POST FREE ON REQUEST.

Made
exclusively by

THE
Abietsan
Manufacturing
Co., Ltd.

Concordia Works
Managers St.
London, E.14

Phone: East 4150



DEARBORN (1923) LTD.

37 Gray's Inn Road, London, W.C.1

Telephone: HOLBORN 9669

Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
PILENTA SOAP .. A complexion soap.	10/-	1/-
PROLACTUM .. For the lips.	10/-	1/-
PARSIDIUM JELLY .. For wrinkles.	10/-	1/-
ALLACITE OF ORANGE BLOSSOM .. A dressing cream.	22/6	2/6
BORANIUM .. A hair tonic.	22/6	2/6
CLEMINITE .. For a face lotion.	22/6	2/6
COLLIANDUM (Powder & Solide.) .. For a face tint.	22/6	2/6
PERGOL .. A deodorant.	22/6	2/6
TEKKO PASTE .. Camphor cream.	22/6	2/6
STALLAX .. For a shampoo.	13/6 22/6	1/6 2/6
JETTALINE .. For clearing the skin.	31/6	3/6
PHEMINOL .. A depilatory.	36/-	4/-
MENNALINE .. For the eyelashes.	36/-	4/-
MERCOLIZED WAX .. A face cream.	18/- 31/6	2/- 3/6
STYMOL .. For oily complexions and blackheads.	36/-	4/-
SILMERINE .. Hair-curling fluid.	22/6	2/6
BARSYDE .. Dandruff eradicator.	22/6	2/6
TAMMALITE .. For grey and faded hair.	22/6	2/6
LIQUID PERGOL .. To check excessive perspiration locally.	31/6	3/6
BICROLIUM .. For whitening the hands.	22/6	2/6
COCONOIDS .. For figure development.	31/6	3/6
SIPOLITE .. A new depilatory.	18/-	2/-

The Products of

Messrs. PARKER, BELMONT & CO.

CLYNOL BERRIES .. For obesity.	36/-	4/-
SOFT PALERIUM .. For wrinkles.	45/-	5/-
LIQUID NAIL POLISH .. Brilliant and lasting.	10/-	1/-

Stocked by ALL Wholesale Houses.

FOREIGN AND COLONIAL DEPÔTS AND AGENCIES.

South Africa: LENNON, LTD., Cape Town, etc.
SIVE BROS., & KARNOVSKY, LTD., Johannesburg.
India: FRAMJEE & SON, Bombay.
A. I. CHOUDRY, Calcutta.
New Zealand: HIRLAND & CO., Auckland and Wellington.
Irish Free State: MAY, ROBERTS & CO., LTD., Dublin.

GAL Toilet Preparations

Retail Prices in Great Britain and Northern Ireland

1726 Gal Toilet Soap single tablet	1/-	2/9
box (3 tablets)	3d.	
1730 Gal Toilet Soap—Visitors' Size tablet	box	1/6
1742 Gal Face Powder	-	-
SHADES: Blanco, Natural, Rachel 1, Rachel 2, Rosa, Ocre, Ocre Rosado	-	-
1751 Gal Vanishing Cream	-	pot 2/9
1777 Gal Cold Cream	-	pot 2/9
1753 Gal Almond Paste	-	pot 3/-
1770 Gal Perfume	-	bottle 13/-
1741 Gal Eau de Cologne	-	bottle 8/-
1740 Gal Eau de Cologne	-	bottle 30/-
1759 Gal Bath Salts	-	bottle 6/-
1750 Gal Tooth Paste	-	tube 1/6
1731 Gal Shaving Stick (metal container)	-	stick 1/6
1732 Gal Shaving Stick (cardboard container)	-	stick 10d.
1737 Gal Hair Fixative	-	bottle 2/3
1736 Gal Liquid Brilliantine (One body)	-	bottle 3/-
1772 Gal Liquid Brilliantine (Two bodies)	-	bottle 3/-
1735 Gal Solid Brilliantine	-	pot 2/-
1738 Gal Liquid Shampoo	-	bottle 2/-
1733 Gal Hair Lotion—"Heno"	-	bottle 12/6
1765 Gal Hair Lotion—"Colonia"	-	bottle 12/6
1767 Gal Hair Lotion—"Talavera"	-	bottle 12/6

PERFUMERIA GAL
MADRID, LONDON, BUENOS AIRES
LONDON OFFICE: 76, STRAND, LONDON, W

All GAL Toilet Preparations are now selling

Following the popular success of Gal Toilet Soap the preparations listed above are now being introduced. Each product is packed in the familiar "sunshine yellow" wrapping. Send your order now

REMEMBER: Every sale brings you 33 $\frac{1}{3}$ % profit on turnover. In the case of Gal Toilet Soap (Catalogue No. 1726) the discount is on the box price.

Retailers are invited to send for attractive display material.

TRADE
DISCOUNT
33 $\frac{1}{3}$ %

PERFUMERIA
GAL

Madrid—London—Buenos Aires. London Office: 76, Strand, W.C.2

The original combined Cream and Powder

la **VELOUTY**

de **DIXOR** Paris



The advertised line that you are asked for.
NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES :—	Full size pot -	21/- doz.	RETAIL	2/9
	Super tube -	22/- "		3/-
	Large tube -	14/- "		2/-
	Medium tube -	7/- "		1/-
	Handbag tube -	3/- "		6d.

Made in four shades :

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents

DEBACQ & HARROP,

68 Newman Street, Oxford Street, London, W.1.

Sole Distributors for

Northern Ireland: ROBERT MAYRS & CO., 43 Chichester Street, BELFAST
Irish Free State: MAY ROBERTS & CO. LTD., Grand Canal Quay, DUBLIN

Nuctone

Order through your usual
wholesaler, or from

J. C. GAMBLE & CO. LTD.
211 BLACKFRIARS ROAD,
LONDON, E.C.1

FOR GREY HAIR —

NUCTONE ECLAIRE, ECLAIRE CONCENTRE
NUCTONE AND NUCTONE CONCENTRE

Manufactured by

STEWART, GOODALL
& DUNLOP, LIMITED,
4 DERING STREET,
LONDON, W.1

HAVE YOU PLACED YOUR ORDER FOR **MASQUE ROUGE**

The Perfume that has thrilled all Paris.

PARFUMS MARCEL GUERLAIN, Ltd.,
Regent Arcade House, 252/260 Regent Street, London, W.1

THE HOUSE FOR QUALITY IN PUFFS NOVELTIES ALWAYS AVAILABLE



COMPACT POWDERS

Specially Prepared,
Any Tint. Any Perfume.

F. SCHUTZE & Co., Ltd.

BLACK BULL WORKS, CALEDONIAN ROAD, LONDON, N.7

Sunshine Remedies

INCLUDING THE NOW FAMOUS

ANTI-ACID TABLETS, "TOXINICON" for Rheumatic diseases

GOLDEN-RAY SHAVING SOAP The only Soap with antiseptic Vaseline
centre

SOLEIL D'OR PERFUME & TOILET PREPARATIONS

London Chemists are invited to send their "Sun Ray"
patients to our private rooms. Trained Staff in attendance

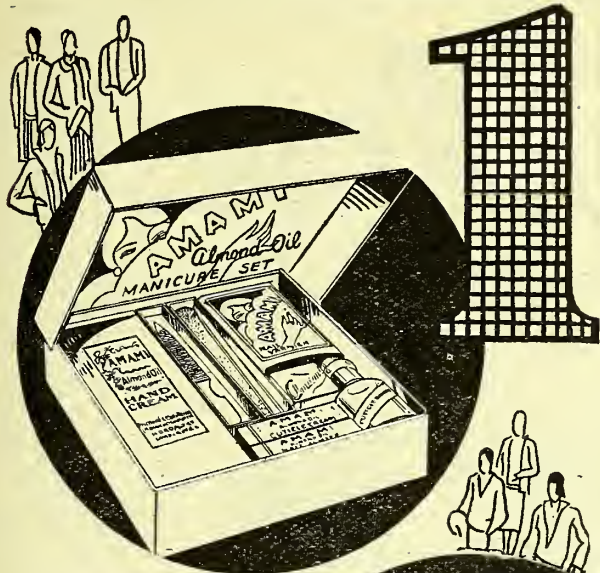
ASK FOR DETAILS.

Write for Descriptive Catalogue,

Sunshine Remedies, Ltd.

8 West Halkin Street, S.W.1

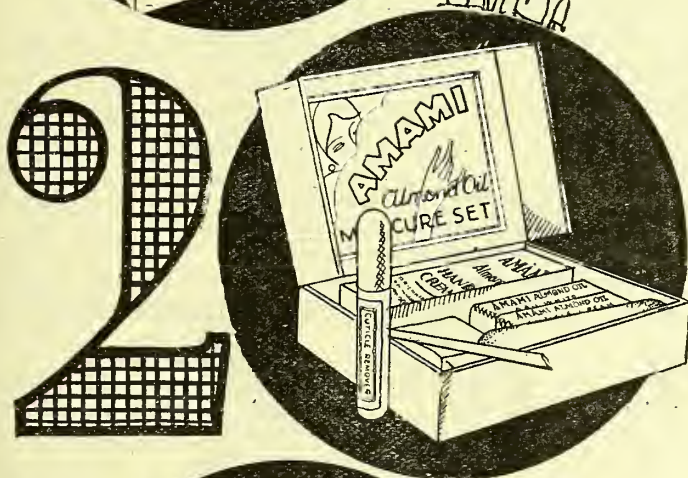
Telephone: Sloan 4133.



EVEN BIGGER SALES TO COME

THE sales of Amami Manicure goods have mounted steadily . . . and swiftly . . . during the past few months. These three lines have proved most profitable to retailers in every part of the country.

Now with the Spring advertising which is about to start for them . . . and the increased demand which Spring always brings for beauty goods . . . Amami Almond Oil Manicure Sets are going ahead faster even than before.

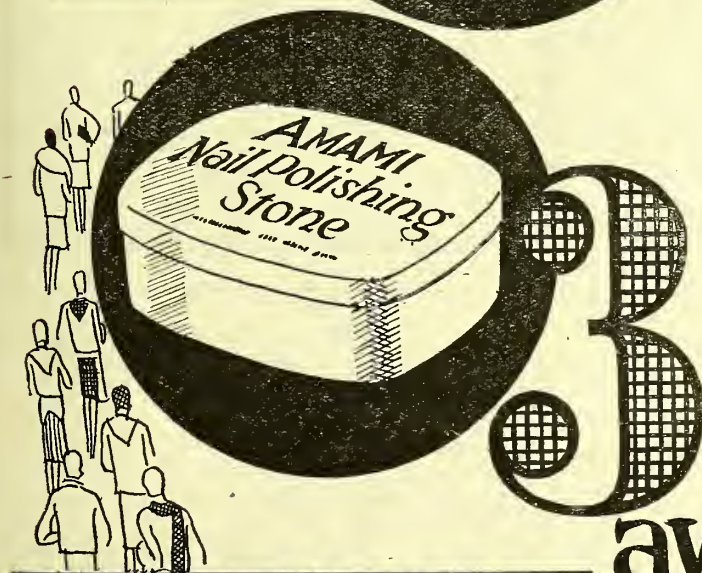


THESE THREE FAMOUS LINES

Easy to handle . . . easy to store . . . easy to SELL and with a big profit on every sale . . . Amami Manicure Sets are as popular with the trade as they are with the feminine public.

One, two, three . . .

**. . . and
away we go**



AMAMI

is the sales motto of these Amami lines. From the counter to the customer is an easy step for Amami Manicure Sets.

PRICHARD & CONSTANCE (Mfg.), LTD.,
11, BROAD STREET, W.C.2.

SPHERE SUPERB POWDER PUFF

A new Puff made of Sylkie-down Velour. The pile on this beautiful puff is produced in such a way as to retain just sufficient powder to enable the user to apply it smoothly and evenly, without streaks, as is the case with coarser materials.

Supplied in assorted colours and sizes.

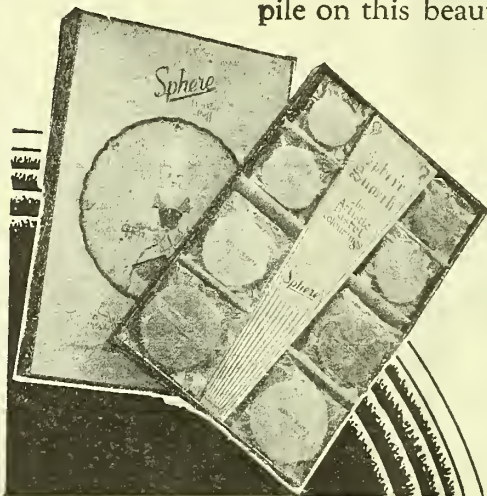
ATTRACTIVE DISPLAY BOX.

No. PF 50 as illustrated, 2 doz. in a box ... **7.6** per box.

Assorted Six Puffs each 2", 2½", 2¾", and 3¼" to the box.

Wholesale only:

FAIRE BROS. & Co., Ltd., Leicester.



2 tubes for 7½d.

Selling Scheme extended during
FEBRUARY and MARCH

GLYROSA

CHAPPED HAND CREAM

*New Showmatter or particulars
of trade offer sent on request.*

THE HARRY A. PENNEY Co. Ltd.
179/185 Great Portland Street, W.1



**A
KEEN
BLADE
AT A
KEEN
PRICE**

The Blade that **SELLS** as it **SHAVES**—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.

Dept. C.D. "Wanie" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4



RODGERS dare not let them be less than the best.

That is why men come back and back again for the Rodgers blade and Retailers find a steadily increasing sale for it.

Write for full details.

JOSEPH RODGERS & SONS, Ltd., SHEFFIELD.
Cutlery to His Majesty.

Cussons'

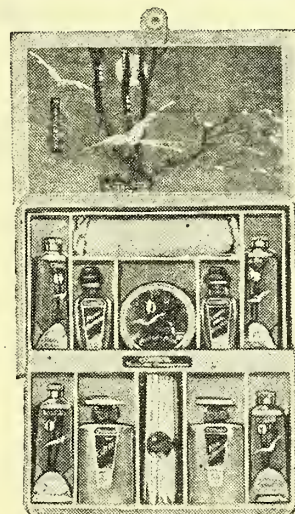
"MISTS of the MOON"

NOVELTY MANICURE SETS



M.M. 42. To retail at 2/6

A low-priced set which fills the fundamental requirements of manicure treatment.

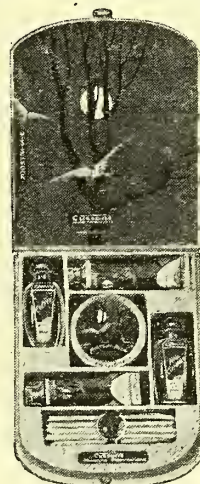


M.M. 44. To retail at 8/6

A Manicure Set that is fascinating and entirely different. The sliding upper tray makes it possible to include every necessity of a complete manicure without undue bulk.

Stock and concentrate on these sales producing sets with their big profits of over 60%.

Terms: Retail selling price less 35% and 5% less 2½% monthly.



M.M. 43. To retail at 5/-

A medium-priced set of particularly attractive lay-out.

Cussons

KERSAL VALE, MANCHESTER

Sorbo

TRADE MARK

Also

SORBELLE

SORBELLE is the newer Sorbo range of Sponges, having all the Sorbo consistency and softness, but is offered at prices to meet foreign competition. Sorbelle, although offered at low prices, is nevertheless a GENUINE SORBO PRODUCT.



Acknowledged to be the
best and most absorbent
Rubber Sponge in the
World.

IT NEVER CRUMBLES

AND

Provides the luxury of a sponge
which is really hygienic, soft,
free from grit, and durable.

Sole Manufacturers:

SORBO RUBBER-SPONGE PRODUCTS LTD

Phone: Woking 966

SORBO WORKS, WOKING, SURREY

Grams: "SORBO, Woking."

POUDRE NILDÉ

Change of Address:

Nildé (Paris) Agency Ltd.
of Regent Street, London

ARE OPENING Offices
and Showrooms for

TRADE, EXPORT & ADVERTISING
AT

258 EUSTON ROAD
LONDON, N.W.1

Sole Distributors for the U.K.:

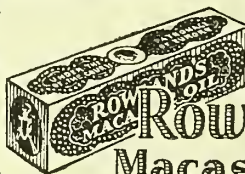
Messrs. **SANGERS Ltd.**
258 EUSTON ROAD, N.W.1

Tried & Proved

Rowland's Macassar Oil is no new preparation; it has been used all over the world for more than 137 years and everywhere it is held in the highest esteem. It is guaranteed to

P.A.T.A.
3/6, 7/-
& 10/6

Red for
dark hair;
golden for
fair or
grey hair.
From all
Wholesalers



Rowland's
Macassar Oil

contain no
injurious
substance

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1
E.M.47

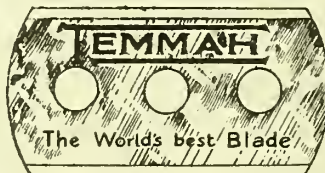
↓ THE **EMMAH** BLADE ↓

YIELDS **86%** PROFIT

BONUS 2 DOZEN (and attractive Showcards) on 1 gross.

15/-
Gross
(14 doz.)

Initial
Orders
on sale
or return.



2d.
each
Retail.

Direct or
from all
Whole-
salers.

YOU WILL FIND THEY SELL ON MERIT ALONE.

TEMMAH PRODUCTS LTD.

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"One Moment, Sir!"

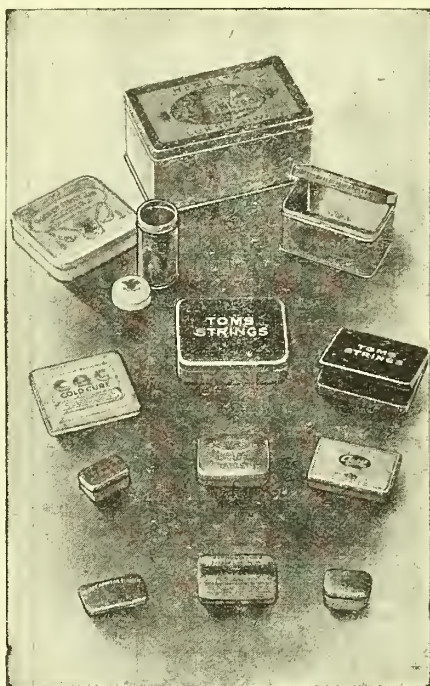
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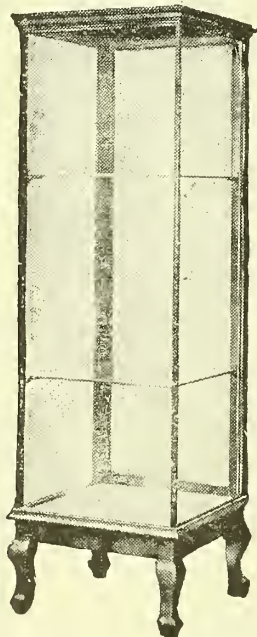
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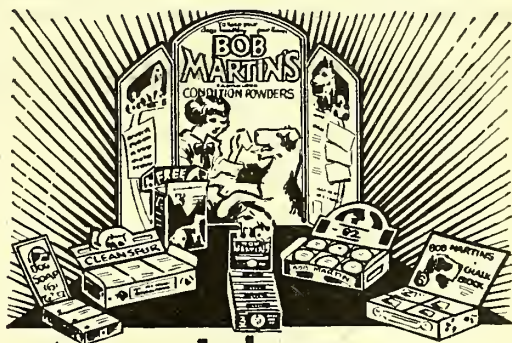
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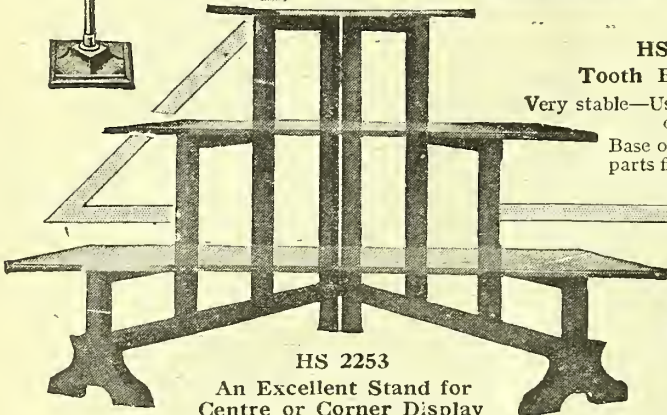
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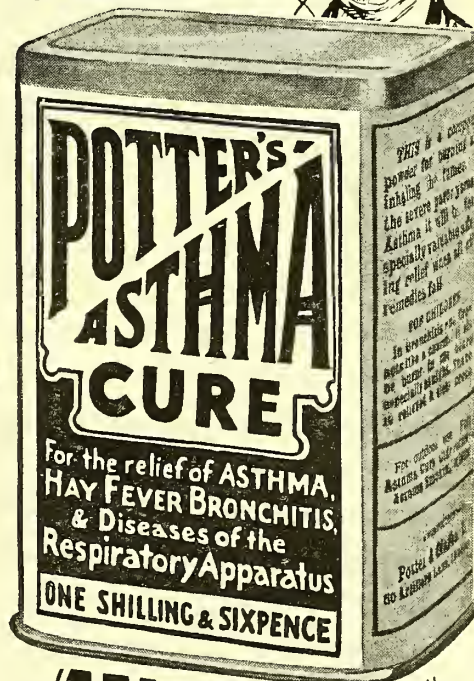
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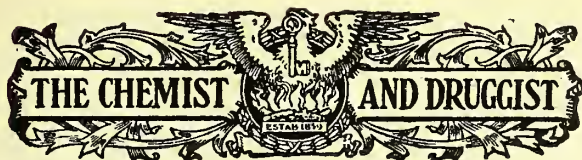
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Series 2609

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Business Changes

BOOTS, LTD., are opening a new shop at 127 London Road, Liverpool.

MR. E. H. BOWDLER, chemist and druggist, late of Wolverhampton, has acquired the business of Mr. W. Charrington, chemist and druggist, Lichfield.

THE business of Mr. J. H. Beacock, chemist and druggist, Upperhead Row, Leeds, who has retired, has been taken over by J. R. Bentley & Son, Bell's Pharmacy, Kirkgate.

H. MAYER SENIOR, LTD., vanilla and general produce importers, have moved their offices and saleroom from 42 Trinity Square to 52 Crutched Friars, E.C.3. Their 'phone number Royal 2391 remains unchanged.

GASSY PATIENTS.—Chemist (to young woman who has been looking after aged and infirm parents): "Well, May, and how are the patients?" May: "A bit better, sir, but they get very aerated, not being able to do nothing!"

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Marking of Imported Malt Products Recommended

The Standing Committee on Malt Products has issued a report (Cmd. 3474: Stationery Office, 1d.) recommending that, provided the "appropriate department" is satisfied as regards practicability of enforcement, an Order in Council should be made prohibiting the sale or exposure for sale, wholesale or by retail, in the United Kingdom of imported malt products, unless the container bears an indication of the origin of the goods. The term "malt products" comprises (i) malt extract; (ii) malt flour; (iii) malt extract and cod-liver oil; and (iv) malt extract blended with any other product so that malt-extract comprises more than 50 per cent. by volume of the whole. It may be remembered that at the sitting of the Committee on October 23 last (C. & D., 1929, II, 535) no opposition was offered to an application for the proposed Order.

Petroleum (Compressed Gases) Order

The Petroleum (Compressed Gases) Order, 1930 (S. R. & O., 1930, No. 34: Stationery Office, 1d.) provides that Sections 5, 6, 13 (2), 13 (3), 14, 15, 16 and 18 of the Petroleum (Consolidation) Act, 1928, apply to air, argon, carbon monoxide, coal gas, hydrogen, methane, neon, nitrogen and oxygen when compressed in metal cylinders.

Society of Chemical Industry

An ordinary meeting of the London section of the Society of Chemical Industry was held on February 3. A paper was read by Dr. Herbert Levinstein, M.Sc., F.I.C. (president of the Society), on "Chemical Disarmament." Dr. Levinstein gave some interesting facts concerning the use of gas in warfare. The importance of the chemical arm, he said, was increasing, and gas was less brutal and less destructive than shells. The Geneva Protocol of 1925 prohibited the use in war of asphyxiating, poisonous or other gases and of analogous liquids, but did not prohibit the use of smoke screens. In concentrated form most of the smokes (as, for example, chlorosulphonic acid smoke) had a deleterious effect on the human organism. Many people would argue that tear gases were non-poisonous, as in very low concentration they only affect the eyes. Tear gas was used in the United States for dealing with riots and similar disturbances. The use of mustard gas permitted great economy of force, as no place sprinkled with this substance could be usefully held. It was necessary, in order to ensure an adequate supply of gas in an emergency, for the War Office to keep in close touch with the chemical industry of the country. In these circumstances it was satisfactory that the chemical industry had emerged from the war both absolutely and relatively stronger than before, with greater capacity for production and research. It was an elementary act of prudence, therefore, to see that research for chemical warfare purposes should continue to be a subject for special study, and that funds for this purpose should not be cut down below the safety point. The chairman said that he greatly appreciated Dr. Levinstein's paper. Other speeches followed, after which a vote of thanks to Dr. Levinstein was carried with acclamation.

Inquests

A verdict of "Poisoning by cyanide of potassium" was given at a recent inquest at Worcester on the body of William Whittle, Holly Bush, who was found dead. It was stated that the amount taken was from 30 gr. to 40 gr. Evidence of purchase was given by Mr. W. J. Fortnam, chemist and druggist, Ledbury, who stated that the quantity supplied on August 10 last was $\frac{3}{4}$ oz., and that the poison-book was signed; and by Mr. R. H. Ellis, F.I.C., the Gloucestershire county analyst.

An inquiry was held at Modbury, on January 29, concerning the death of Mr. George Swinnerton, chemist and druggist. Evidence was given by the widow and a local

medical man, and a verdict was returned to the effect that death was due to taking hydrocyanic acid while of unsound mind.

A verdict that death was due to heart failure accelerated by chronic opium poisoning, due to taking too much chlorodyne, was returned at a Bradford inquest, on January 31, on the body of Mrs. Mary Turnpenny, Grafton Street. Mrs. Turnpenny, it was stated, had taken to chlorodyne after twenty years of medical treatment for bodily pains.

An inquest was held recently on the body of Mr. R. J. Linton, chemist and druggist, who was found dead at Lullington, Sussex, on January 28. Mr. Llewellyn, 160 Seaside, Eastbourne, stated that Mr. Linton, who had been his assistant, carried out his duties satisfactorily in every way. Witness, owing to slackness of trade, gave the deceased a week's notice to leave on January 11; he did not appear to mind, and left on January 18. The coroner recorded a verdict of "Suicide by hanging whilst of unsound mind."

The Islington (London) coroner held an inquest, on February 5, on the body of Edith E. Williams, aged five, daughter of a jobbing builder. The evidence was to the effect that the child had been subject to bronchitis from birth. Early on February 3 she was seized with vomiting, and death took place before the doctor arrived. Mr. John Pickering, Ph.C., manager to W. Fox & Sons, Ltd., chemists, Bridport Place, N.1, identified a bottle produced as containing a mixture prepared by Messrs. Fox. The word "poison" was on the back of the bottle, and it was stated that the bottle contained twenty doses for a child five years of age. Dr. O'Hara, who made a *post-mortem* examination, stated that there was a measles rash on the face and trunk. Death was due to heart failure accelerated by measles. Sir Bernard Spilsbury agreed with Dr. O'Hara as to the cause of death. There was a small amount of narcotic in the preparation, which was a very useful one. The measles was of a very virulent type. The jury returned a verdict of "Death from natural causes."

Birmingham

A new general hospital, at a cost of £1,000,000, is proposed for Birmingham.

At the recent local Burns anniversary celebrations the toast to the memory of the poet was proposed by Councillor R. H. Hume.

Liverpool

Alderman Edwin Thompson, governing director of Thompson & Capper Wholesale, Ltd., has been elected chairman of the Liverpool Corporation water committee.

Mr. O. B. Oxon, manager of the new B.D.H. dépôt in Liverpool, and Mr. John Cumming, one of their local representatives, have been elected members of the Liverpool Pharmacists' Association.

A meeting of the Liverpool School of Pharmacy Old Boys' Association was held on January 28, when rules were passed. Former students of the school may obtain particulars of the Association from Mr. E. Witter, 127 Albert Road, Widnes.

Sheffield

Mr. J. F. Eardley, Ph.C., is confined to his home through an indisposition.

Mr. G. H. Needham, chemist and druggist, has opened a business at Prince of Wales's Road, Manor Estate.

Mr. T. Helmn recently gave an address on the manufacture of suppositories, pessaries and bougies, before a well-attended meeting of students at the Central Commercial College.

Miscellaneous

POISON LICENCE APPLICATION.—William J. Gardner, Ltd., Birchington-on-Sea, have applied to the Kent County Council for a licence to sell agricultural and horticultural poisons.

FIRE.—An outbreak of fire occurred on January 27 at the premises of Mr. A. E. Baylis, chemist and druggist, Great Malvern. Although the flames were quickly subdued, the contents of the pharmacy suffered.

IN THE COURTS.—At West London Police Court, on January 31, William Alexander Carpenter, herbalist, Farmer Street, W.8, was committed for trial on charges of administering noxious drugs to women for illegal purposes and on charges of assault—At Dudley, recently, a lad named Leslie Fisher was placed on probation, and ordered to pay costs, on a charge of stealing razor blades, value 9s. 6d., belonging to his employers, Holloways, Ltd., chemists, Wolverhampton Street—At Ealing Police Court, recently, Mr. L. Evans, chemist and druggist, Northfield Avenue, and Mr. H. C. Hirst, chemist and druggist, Northfield Avenue, were each fined 20s. for keeping their shops open for the serving of customers after 8 p.m.—At Marylebone Police Court, London, on January 31, James Seabrook (19), errand-boy, was bound over on a charge of burglary and theft at the shop of Mr. John Forbes, chemist and druggist, Leinster Terrace, W.2.

Irish News

Medical Benefits Bill

The Rt. Hon. J. M. Andrews, Minister of Labour for Northern Ireland, who is to have charge of the forthcoming Medical Benefits Bill in Parliament, speaking in Belfast on January 23, said it would be wrong to deny any longer to the insured persons of Northern Ireland the advantages in regard to medical treatment which were enjoyed by their fellow countrymen in the United Kingdom. Through the proposed introduction of medical benefits there would be brought within the reach of every insured person a service that was equal in efficiency to that enjoyed by the people across the water. The approved societies in Northern Ireland, as the result of the excessive sickness, were being asked to pay far larger sums per annum to their insured members than were being paid out by the societies in Great Britain. The societies that operated in Great Britain as well as in Northern Ireland transferred to Northern Ireland last year no less a sum than £160,000, the money of English insured persons, in order to keep the benefits on the same level as in England. The seriousness of that was not realised by the Northern Ireland people generally.—At a conference of Approved Societies operating in Northern Ireland a resolution was passed recently welcoming the announcement made by the Minister of Labour and assuring the Government of enthusiastic and whole-hearted support. Replying to the protest of the Armagh Rural District Council (*C. & D.*, January 25, p. 91), the Minister of Labour states that an extension of the medical facilities available for the working classes is urgent.—At a conference of delegates from Local Employment Committees in Northern Ireland, held in Belfast on January 31, a resolution was passed unanimously that medical benefits on the same lines as in the rest of the United Kingdom should be extended to Northern Ireland at the earliest possible date.

Brevities

Windows in the premises of Hamilton, Long & Co., Ltd., chemists, were smashed on February 1, as the result of a motor crash at the junction of Nassau Street and Grafton Street, Dublin.

It is understood that the question of amalgamating the three societies in Northern Ireland has now been definitely left over until the Medical Benefits Act, which is to be introduced next spring, is on the statute-book.

It is believed that the Northern Government may take further steps towards combating the methylated spirit evil by the introduction of fresh legislation. Chemists in some places are finding it difficult to cater for the needs of the public without supplying the bogus customer, and one suggestion is that, owing to the prevalence of this state of things, any person needing supplies should be compelled to obtain a permit at the local police station.

Scottish News

Brevities

Indignation has been caused in Birr by the resumption of dog poisoning. Twelve animals have already been killed by meat containing doses of strychnine strewn on the public streets. Exactly twelve months ago thirty-six dogs were killed in this town within three weeks in precisely the same manner and all efforts to trace the perpetrators failed.

It has been found that the timber of *Pinus sylvestris*, grown on the very sandy shore of the Carse of Ardersin, near Nairn, cannot be surpassed in quality, and it is suggested that the entire shore of the Moray Firth should be planted with this valuable tree. The wooded belt would also bind the drifting sands, protect the surrounding country and provide a new industry.

At Greenock Sheriff Court, on February 3, John E. Duigenan and his wife were charged with having defrauded a number of doctors and dentists in Greenock and district by falsely representing that a liquid they offered for sale was manufactured in Birmingham by a branch of Imperial Chemical Industries, Ltd. The sums obtained for the liquid, which was named Raycar, amounted to £17 16s. 6d. The charge against the woman was withdrawn, and a fine of £20 was imposed on Duigenan.

Glasgow

A satisfactory financial report was given at the annual meeting in Glasgow of the Central Dispensary, Mr. P. MacLellan, presiding. Income amounted to £1,107 and expenditure £994, leaving a credit balance of £112. Comment was made on the favourable results obtained from the use of an ultra-violet ray apparatus which was installed in April 1928, and 548 cases have been treated successfully. During the year 9,896 cases were treated at the dispensary, a decrease of 282. The number of operations carried out was 241.

On January 22 a Valuation Court refused the appeal of an Inland Revenue officer against the admission of the premises of W. & R. Hatrick & Co., manufacturing chemists, Renfield Street, to the valuation roll as industrial, the Crown contention being that the premises were occupied and used for the wholesale distribution of medicines and drugs. The Valuation Committee had affirmed the assessor's description of the premises as industrial, and had apportioned three-fifths of the respondents' premises as industrial and two-fifths as non-industrial.

Westminster Wisdom

Notes on Parliamentary Matters

DI-CALCIUM PHOSPHATE

Mr. P. Oliver asked the Chancellor of the Exchequer, on February 3, what was the amount received in each of the last six years from the duty on imported di-calcium phosphate?

Mr. P. Snowden: I regret that the information asked for is not available.

DAUGHTER OF DRUGS

Mr. Allen asked the Home Secretary on February 4 whether, in view of the effects of the traffic in drugs on the health and morals of the community, he will consider introducing the death penalty in the case of those convicted as principals in the traffic?

Mr. Clynes: The answer is in the negative.

DEATHS FROM DANGEROUS DRUGS

Major Carver on February 5 asked the Home Secretary whether, in view of the statement of one of the British assessors at the recent meeting of the League Advisory Committee on the traffic in opium and other narcotic drugs to the effect that the destruction of life caused by this traffic could be compared with that of a modern battle, he can give any statistics showing what the mortality is in this country from drugs.

Mr. Clynes: I have seen a Press report of the remarks made by the president of the Central Opium Board. They obviously related to the world traffic in drugs rather than to the state of affairs in any one country. The Registrar-General has furnished me with the following figures relating to deaths from drugs coming within the Dangerous Drugs Acts:—

ENGLAND AND WALES, 1921-1928

	Male	Female	Total
A.—Deaths from Opium and Other Narcotic Drugs.—In 8 cases (6 m. and 2 f.) death was due to "the drug habit" or the use of narcotics, but there is no information available to show whether the drugs used came within the provisions of the Dangerous Drugs Acts ...	18	15	33
B.—Deaths from Suicide by Opium and Other Narcotic Drugs.—In 10 cases (7 m. and 3 f.) death was due to the use of narcotics or opiates, but there is no information available to show whether the drugs used came within the provisions of the Dangerous Drugs Acts ...	57	22	79
C.—Accidental Deaths from Opium and Other Narcotic Drugs.—In 9 cases (5 m. and 4 f.) death was due to narcotics or opiates, but there is no information available to show whether the drugs came within the provisions of the Dangerous Drugs Acts ...	64	31	95
D.—Homicide by Other Means. ...		1	
		(Morphia)	

Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Tuesday, February 11

Royal Institution, 21 Albemarle Street, W.1, at 5.15 p.m. Sir William Bragg, F.R.S., on "X-Ray Determination of the Structure of Cellulose."

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Fourth evening meeting of the session. Professor T. G. Hill, D.Sc., A.R.C.S., F.L.S., on "The Biologic Factor in Plant Anatomy."

Manchester Pharmaceutical Association and Branch of the Pharmaceutical Society. Joint meeting in the Council Chamber, Houldsworth Hall, Deansgate, at 8.30 p.m. Mr. J. Rutherford Hill on "The Menace of Departmentalism, and the Need for Co-ordination in Pharmaceutical Organisation."

Wednesday, February 12

Edinburgh Chemists' Golf Club. Whist-drive in Crawford's Restaurant, 15 Hanover Street, Edinburgh, at 6.45 p.m. Tickets, 4s. 6d. each, from Mr. H. D. Robson, secretary, 45 Balgreen Road.

Western (London) Pharmacists' Association, Slaters' Restaurant, 192 Oxford Street, W.1, at 8.30 p.m. Mr. C. Morton on "The Standards for the Preliminary Examination"; Mr. R. E. Lowndsbrough on "Problems in Shopfitting."

Birkenhead and Wirral Pharmacists' Association, Woodside Hotel, at 8.30 p.m. Speaker, Miss Stevenson, Pricing Bureau, Liverpool.

Liverpool Pharmacy Club, Reece's Ballroom, Elliot Street, 7.30 p.m. to 11.45 p.m. Dance. Tickets 5s. each from Miss Dobie, "Braehead," Oxtou, Birkenhead.

Thursday, February 13

West Ham and District Association of Pharmacists, Holborn Restaurant, at 6 p.m. for 6.30 p.m. Annual dinner and dance.

South of England College of Pharmacy, Avondale Halls, Landor Road, Clapham, at 7.30 p.m. Annual social and dance given by Mr. H. Lucas. Tickets, 2s. 6d. each, from the social secretary at the College.

EALING AND DISTRICT PHARMACISTS' ASSOCIATION AND BRANCH.—The annual dinner and dance will be held at the Restaurant Frascati, Oxford Street, W., on Wednesday, February 19, at 6.30 p.m. for 7 p.m. Tickets 12s. 6d. Evening dress.

Legal Reports

No Express Warranty.—At Magherafelt Quarter Sessions, on January 30, Osmond & Son, Ltd., Grimsby, sued Minnie Porter, a farmer, to recover the sum of £2 12s., the price of 1 cwt. of Codliverine supplied in 1927. Mr. Copeland said when payment was demanded the defendant replied that she was willing to pay 10s., as a sample had been analysed by the Ministry of Agriculture and found to be only of that value as a foodstuff. Judge Osborne, K.C.: I am not going to say whether this is food or not. Mr. Kingsford Richard Osmond, a director of the company, said the preparation was sold as a condiment and not as a food. He did not agree with the Ministry's circular as to its food value. Mr. David O. Marshall, B.Sc., analyst, said Codliverine contained 17 per cent. of albuminoids; seven-tenths of the 17 per cent. was pure cod-liver oil. The judge said there was no evidence of express warranty, and gave a decree for the amount claimed, with £3 3s. expenses.

The Wrong Chemical.—At Belfast Recorder's Court, on February 3, Miss Beula Martin, photographer, Donegall Place, sued Messrs. William C. Dobbin and L. T. Dobbin, chemists, North Street, for loss and damage sustained by reason of negligence in the sale to the plaintiff of "a certain drug" for photographic purposes, which was not of the nature and quality demanded. The plaintiff said she assisted in the developing of prints with carbonate of soda supplied by the defendants. They would not develop properly, and there was "a sad, hopeless look" about them. Evidence was given by an assistant of the cash purchase of the drug supplied by Messrs. Dobbin. Mr. J. Harold Totton, B.Sc., said he analysed the substance sent by the plaintiff and found it to be hypo. Mr. L. Dobbin said the plaintiff had dealt with his firm for some years, and orders by docket were filed. He had failed to trace a docket in this instance, nor could he trace a cash transaction order. The firm was in the habit of supplying Miss Martin with hypo, but not carbonate of soda. Judge Thompson said he had come to the conclusion that the stuff supplied was not what was ordered. At the same time, he thought Miss Martin might have discovered that she was using hypo in place of carbonate of soda before much damage was done. He gave a decree for £10.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office.

BRUCE, DAWSON & CO. (LONDON), LTD. (P.C.).—Capital £1,000. Objects: To carry on the business of manufacturers, merchants and agents, dealers in bottle caps, etc. The directors are: E. O. Steiner and C. Petersen. R.O.: 70 Finsbury Pavement, E.C.2.

ANGLO-FRENCH PHARMACY (BARNATO) CHEMISTS, LTD. (P.C.).—Capital £500. Objects: To carry on the business of chemists, druggists, drysalts, oil and colour men, etc. The subscribers are: B. Barnato and Mrs. N. Barnato. R.O.: 21 Westbourne Grove, W.2.

C. V. HASSALL, LTD. (P.C.).—Capital £500. Objects: To acquire the business of a drug store proprietor and optician carried on by C. V. Hassall at 11 Longcauseway, Kearsley, Lancs. The permanent directors are: C. V. Hassall and F. Osborne. R.O.: 11 Longcauseway, Kearsley, Lancs.

TOILET REQUISITES, LTD. (P.C.).—Capital £250. Objects: To carry on the business of chemists, manufacturers of and dealers in patent and proprietary medicines, perfumes, soaps, dentifrices, cosmetics, etc. The subscribers are: A. Buck and J. Smythe. Secretary: P. T. Duxbury, C.A., 52 Camden Street, North Shields.

RYVITA Co., LTD. (P.C.).—Capital £10,000. Objects: To acquire the business of an importer, manufacturer and dealer in foodstuffs carried on by J. E. Garratt at 96 Southwark Street, S.E., as "The Ryvita Company," together with the trade mark "Ryvita," and to carry on

the business of manufacturing and wholesale bakers, grocers, chemists and druggists, etc. The subscribers are: J. E. Garratt and T. T. C. Garratt. R.O.: 96 Southwark Street, S.E.1.

EUSAN PRODUCTS, LTD. (P.C.).—Capital £10,000. Objects: To enter into an agreement with the J. M. Newton Vitreo-Colloid (1928), Ltd., and P. Hall relating to the acquisition of an improved type of toilet brush and a certain antiseptic preparation, together with the benefit of certain pending patent and/or trade mark applications in respect thereof, and to carry on the business of chemists, druggists, drysalts, etc. The provisional directors are: J. Edmunds and H. L. Hunter. R.O.: Africa House, Kingsway, W.C.

J. E. GARRATT & SONS, LTD. (P.C.).—Capital £1,000. Objects: To acquire the business of a general merchant, manufacturer and manufacturers' and advertising agent carried on by J. E. Garratt at 96 Southwark Street, S.E.1, as "J. E. Garratt" and/or "The J. E. Garratt Advertising Agency," but not that part of the business carried on by him as the "Ryvita Company," and to carry on the business of manufacturing and wholesale chemists and druggists, etc. The subscribers are: J. E. Garratt and T. T. C. Garratt. R.O.: 96 Southwark Street, S.E.1.

MALTI-CREME, LTD.—At a meeting held in Manchester on January 24 it was resolved that this company be wound up voluntarily. Mr. F. Hiscocks, 24 Dale Street, Liverpool, was appointed liquidator.

COMPANIES DISSOLVED.—Notice has been given in "The London Gazette" that the names of the undermentioned companies have been struck off the register and the companies dissolved:—Camel Drug Co., Ltd.; Kemikures, Ltd.; Cassells Drug Stores, Ltd.; Clun Pharmacy, Ltd.; Fulham Drug Co., Ltd.; Humophos Fertilizers, Ltd.

BOVRIL, LTD.—A net profit of £390,718 (against £366,898) is reported for the year ended December 31, 1929. A final dividend of 8 per cent. (unchanged) on the Deferred shares is proposed, making 13 per cent. (unchanged) for the year, while it is again proposed to transfer £60,000 to reserve. The amount carried forward is £75,955 (against £71,135).

FAIRY DYES, LTD.—The report, now issued, covers the first complete financial year since the company was formed, the previous accounts dealing with the first six months' trading. There is a net profit of £15,262, against £7,817 for the previous six months. The Ordinary dividend is maintained at the rate of 12½ per cent. per annum, £2,750 (against £1,232) is written off preliminary expenses, and the carry forward is increased from £2,609 to £3,521.

HEPPELLS, LTD., intimate that Mr. Edmund Carpenter, M.P.S., Mr. H. W. Seymour Howard, and Dr. E. Leonard Lees (all three directors of Hodders, Ltd.) have been offered, and have accepted, a seat on the board of Heppells, Ltd. Mr. J. V. Elliott Taylor, Mr. R. Hough, and Mr. T. Wood have resigned. The financial year of the company closes on March 31, 1930, and at the earliest possible date thereafter the annual general meeting of shareholders will be convened.

TIMOTHY WHITES (1928), LTD.—Meetings of the shareholders have been called for February 11 to sanction an increase in the capital from £1,500,000 to £2,000,000 by the creation of 476,000 7½ per cent. cumulative preferred ordinary shares of £1 and 480,000 deferred ordinary shares of 1s. each. An issue of the new shares, the chairman states, will be made on attractive terms immediately the increase has been sanctioned. The issue will be confined to shareholders of Timothy Whites (1928). The new capital is required to provide funds for enlarging the depôts at Portsmouth, stocking and fitting up new shops, and taking up further shares in Timothy Whites (Property) Co. to enable it to finance the purchase of the various shops already bought and those in course of negotiation.

Festivities

West Kent Dance

WEST KENT chemists and friends held their seventh annual dance at Beckenham on January 15. This event, increasing in popularity year by year, had many attractive carnival features, and the success of the evening was mainly due to the indefatigable M.C., Mr. V. S. Leather, assisted by Mr. W. J. Dalby and Mr. C. G. Pinchen.

Glasgow Whist Drive

A SUCCESSFUL whist drive and tea, under the auspices of the Glasgow Pharmacy Club, was held in the Highlanders' Institute, on January 21. Some 150 players took part in the game for prizes presented by Miss Ross. At the close the prizes were presented to the successful competitors by the donor. The following were the winners:—Ladies: (1) Miss Betty Brown; (2) Mrs. Gray; special, Miss J. Dougall. Gentlemen: (1) Mr. John Abbott; (2) Mr. Wm. Martin; special, Mr. R. J. Allen. Lady playing as gentleman, Mrs. B. H. Ross.

The "Westerners"

ONE of the most successful functions held in connection with the Western (London) Pharmacists' Association for some years took place at the Portman Rooms, Baker Street, W., on January 30. The company was large, there being about 170 present, but there was scope in the great hall for the energetic gyrations of devotees of the barn dance, the polka and the old-fashioned waltz. These were interspersed by the ubiquitous Mr. B. R. Wilkinson (who was master of the dance) to give variation to the jazzie rhythm of the fox trot and the one-step. Everyone young and those not so young entered into the spirit of the game, and "spot" prizes paled their ineffectual fires, for the enjoyment was general. The president (Mr. Morley Taylor) with Mrs. Morley Taylor did the honours, supported by five past-presidents—Messrs. A. R. Melhuish, C. A. Noble, C. G. Bonner, Harry Martin and W. B. Falding. Others in the company included Mrs. Freke, Miss Sproule, Miss Dennis Hayes, Mrs. C. A. Noble and Miss Noble, Mrs. Melhuish (with two daughters), Miss Falding, Mrs. B. R. Wilkinson, Mr. John Abbott and Mr. Alan Umney.

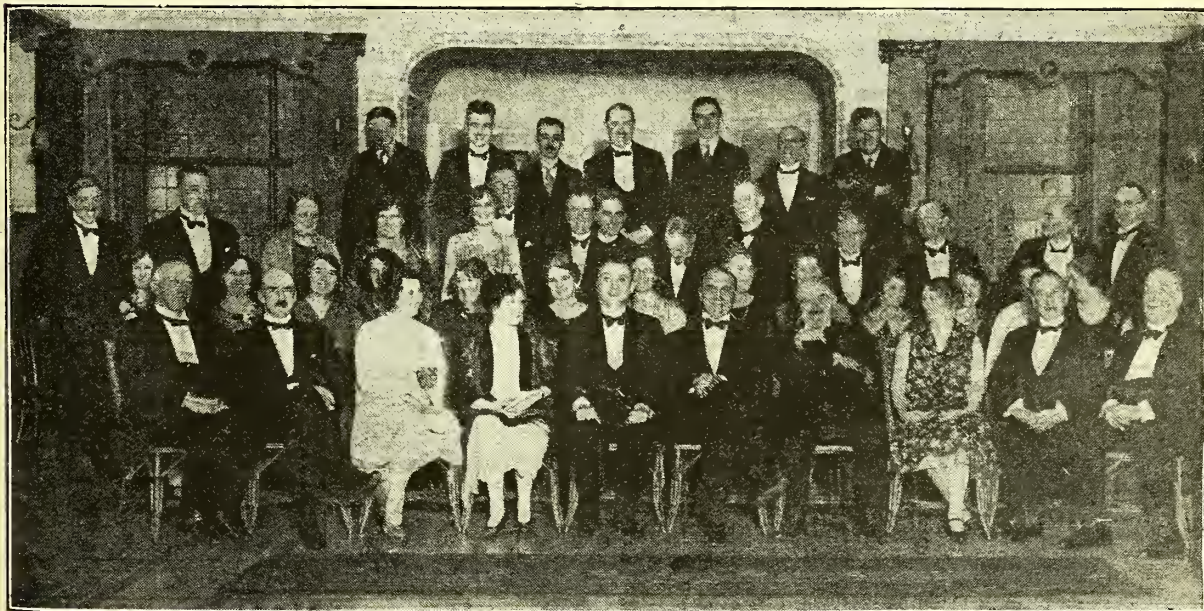
Leeds Chemists' Social

THE annual whist drive and dance promoted jointly by the Leeds and District Branch of the Pharmaceutical

Society and the local branch of the R.P.U. was held on January 29 and attended by 200. Dancing took place from 8 p.m. until 1 a.m., and eighteen hands of whist were played. The function was excellently organised by a joint committee comprising Messrs. H. Lancaster (chairman of the R.P.U. branch), J. Judge (chairman of the Leeds and District Branch of the Pharmaceutical Society), J. Lancaster and G. C. Crummack, E. C. Foster, A. W. Lupton, L. Carr, Harold Haw, and J. F. Simon. Messrs. E. Carrick Foster and Harold Haw were the M.C.s for dancing, and Messrs. J. Judge and J. F. Simon were in charge of the whist. The prizes for whist and spot prizes for dancing were given by Ayrton, Saunders & Co., Ltd. (per Mr. Jones); The British Drug Houses, Ltd. (per Mr. Roberts); Evans Sons Lescher & Webb, Ltd. (per Mr. Such); Trufood, Ltd. (per Mr. Weatherburn), S. Maw, Son and Sons, Ltd.; R. J. Reuter, Ltd.; Yardley & Co., Ltd., and Mr. H. Gilleghan, chairman of the R.P.U. Executive. The prizes, which were handed to the winners by Mrs. H. Lancaster, were won by: Ladies, Miss Ida France and Mrs. J. F. Simon; Gentlemen, Mr. J. W. Cliff and Mr. Petch. Mrs. J. Smith was awarded the "booby" prize.

Annual Dinner at Llandudno

THE annual dinner of the Anglesea, North Carnarvonshire and Colwyn Bay Branch of the Pharmaceutical Society was held at Llandudno on January 29, Mr. Wood presiding. The guests of the evening were Mr. F. Gladstone Hines and Mr. Humphreys Jones. During the evening musical numbers were given by Miss Evelina Jones and a party under the leadership of Mr. G. Hughes, chemist, Conway. Mr. Stephenson McCarthy gave some humorous monologues. The toast of "The King" and the "Prince of Wales and the Royal Family" was proposed. The toast of the Pharmaceutical Society was proposed by the chairman of the Branch. Mr. Wood assured his listeners that there was a bright future for the pharmacist and the Society. Mr. Gladstone Hines in response said that the branches would have to take a greater part in the policy of the Society. The toast of the "Guests and Visitors" was proposed by Mr. McIntosh, and responded to by Mr. Humphreys Jones. Mr. Bryan proposed "The Ladies," Mrs. Humphreys Jones responding. Mr. R. Jones proposed a vote of thanks to the secretary and the artists, to which the secretary, Mr. H. R. Evans, replied.



DINNER GROUP AT LLANDUDNO (Messrs. F. G. Hines and H. Humphreys Jones in front row)

THE PART THE CHEMIST PLAYS IN NATIONAL HEALTH INSURANCE

Abstract of an Address delivered to the Portsmouth and District Branch of the Pharmaceutical Society on January 22, by Mrs. Jean K. Irvine, M.B.E., M.P.S., Superintendent of the South-Eastern Pricing Office

BEFORE considering the actual part played by the chemist in the National Health Insurance scheme it may be interesting to look backwards some seventeen years and see what was the position of the chemist in England prior to the passing of the National Insurance Act in 1911 and the introduction of medical benefit in January 1913, whereby medical attendance, treatment and medicine were provided for the insured workers of the country. Before that date there was no organised general medical system; a very large number of workers had to make their own arrangements with doctors, and those arrangements were usually made through friendly societies, works clubs, provident dispensaries, medical aid societies and private clubs.

The friendly societies in 1911 had a membership of about 6,000,000; the rate of subscriptions varied, but the average was about a penny per week per member, with lower rates for their wives and families. The friendly societies, the works clubs and the private clubs contracted with the doctor to provide treatment, including medicine, for their members, but this contract did not include the supply of appliances and expensive medicines. The doctor either employed a dispenser or, in turn, contracted with the chemist to supply medicine at a low rate, in some cases fourpence or sixpence per prescription. A large number of workers were not included in these arrangements and were left to pay the usual doctor's fee appropriate to the class to which the patient happened to belong. As a result there was reluctance to consult any doctor, whilst if the worker did consult a doctor the latter supplied the medicine, an inclusive charge being made for treatment and medicine.

As we know, the chemist did not take part in these various private arrangements for providing treatment and medicine for the workers of the country unless he was employed by a doctor to "dispense" his society or club prescriptions. More frequently, however, the doctor employed his own dispenser, who was often the coachman as well. For the rest, many chemists never had a private prescription presented to them for dispensing prior to the year 1913.

In 1911 came the National Insurance Act, which revolutionised pharmacy. The original text of the Bill did not even mention chemists; friendly

First National Insurance Act societies and the local health committees were empowered to make provision for the supply of drugs and

medicines. Pharmacy was not even represented on the local health committee. A cartoon which appeared in *THE CHEMIST AND DRUGGIST* at the time graphically depicts the situation. In a huge mortar labelled "Friendly Societies" is a squirming figure—the chemist—being pulverised by a pestle wielded by Mr. Lloyd George. A tremendous struggle ensued; a deputation of the "big brains" of pharmacy was received by the Chancellor of the Exchequer, and pointed out to him that whatever may have been his intentions, the Bill as drafted would not ensure insured persons receiving the same medicinal treatment as private persons. The Chancellor finally agreed to amend the clause relating to the supply of drugs and medicines.

In so far as the chemist is concerned, the most important part of the National Insurance Act, 1911, is Section 24 (5), which provides that

"all medicines supplied to insured persons shall be dispensed either by or under the direct supervision of a registered pharmacist."

Attempts have been made by various interested parties to amend this Section, and the Society of Apothecaries,

in their evidence before the Royal Commission on National Health Insurance which reported in 1926, asked that the Section should be amended so as to allow persons who held the Assistant's certificate of the Society to contract directly with Insurance Committees for the supply of medicines for panel patients in institutions. The Royal Commission listened to witnesses for and against the proposed amendment, and reported as follows:—

"We have given careful consideration to this question, and have come to the conclusion that it is not desirable in the interests of insured persons to lower the standard of qualification required for persons who may be allowed to dispense medicines provided under the Insurance scheme. The evidence given before us has left no doubt in our minds that the qualification of the holders of the Apothecaries' Assistants' certificates is inferior to that of a registered pharmacist. . . ."

Section 1 of the Pharmacy Act of 1868 restricts the retailing, compounding and dispensing of poisons to persons qualified under the Pharmacy

Dispensing for Insured Persons

Acts, but the National Insurance Act extends the restriction to the dispensing of all medicines. The State is now responsible for the provision of medicine to all insured persons, and it has been laid down as a cardinal principle of the insurance medical service that in general medicines are to be dispensed by pharmacists, not by doctors; thus, it is expressly stated in the Act, Section 24 (5) :—

"Except as may be provided by regulations, no arrangement shall be made by the Insurance Committee with a medical practitioner under which he is bound or agrees to supply drugs or medicine to any insured person."

The magnitude of the public service rendered by chemists to the State is realised when it is learned that there are 14,000,000 insured persons in England. Since the inception of the Act until the end of 1928 the total amount paid to chemists in England was £18,790,000 (approximate ingredient cost £8,840,000 and approximate dispensing fee cost £9,950,000). In 1928 chemists dispensed 51,988,025 prescriptions, for which they received £1,840,000; it is estimated that they will receive £1,950,000 for 1929. The amount spent on insurance dispensing is increasing year by year; during the last ten years the yearly bill has more than doubled. One can see that this is so by referring to the figures relating to the Portsmouth area.

Year	No. of prescriptions	Total value	Average cost per prescription
		£ s. d.	d.
1916 ..	132,928	3,098 0 4	5.59
1917 ..	120,284	2,854 7 8	5.70
1918 ..	137,667	3,899 8 1	6.79
1919 ..	134,721	4,289 7 1	7.64
1920 ..	160,720	6,371 0 10	9.5
1921 ..	177,139	6,726 17 0	9.1
1922 ..	194,971	6,812 17 8	8.4
1923 ..	208,075	7,035 5 11	8.1
1924 ..	250,590	8,765 5 4	8.4
1925 ..	261,277	9,190 7 1	8.4
1926 ..	278,178	9,970 15 1	8.6
1927 ..	294,757	10,893 13 2	8.9
1928 ..	279,865	10,082 12 4	8.6
1929* ..	307,050	10,931 12 10	8.5
	2,938,222	100,921 10 5	8.2

* Estimated.

This increase is due partly to the increase in the number of insured persons, partly to the different methods of prescribing, and partly to the fact that the insured person has found out that insurance treatment and medicine are worth having. The chief medical officer of the Ministry of Health has stated that about half the insured population suffer from illness every year, so that we have some 7,000,000 people entering the 9,000 chemists' shops in England every year. This gives an average of some 777 insured patients to every shop, an average number of 5,800 prescriptions to every shop per year, and an average yearly payment to each chemist of over £200.

Apart from the monetary advantages of the National Health Insurance scheme to chemists, there is the fact that the people of the country are being educated to go to the chemist for their medicine. The Insurance Act impresses upon them that it is the doctor's duty to prescribe and the chemist's to dispense. Except in special cases doctors are not allowed to dispense for their insured patients, so that many doctors who formerly supplied all the medicine for their patients now find that it is not worth while to keep a dispenser for their uninsured patients alone; accordingly they write prescriptions for all their patients, to the undoubted benefit of the chemist. We used to hear years ago that doctors who did all their own dispensing could not write prescriptions; but the young practitioners who are now coming into insurance practice are accustomed to writing prescriptions from the beginning of their professional life. Whatever may have been the case seventeen years ago I can assure you at the present time—from knowledge gained in dealing with 500,000 prescriptions every month—that the prescriptions issued by the 3,000 practitioners on the list of the South-Eastern Division are of a very high standard indeed. It may be interesting to note here how the type of prescribing has changed during the past fourteen years. In 1916 thyroid was almost the only glandular preparation ordered; now almost every gland in the animal body is brought into therapeutic service.

The administration of medical benefit is carried out by specially constituted bodies, created under the Act of 1911, known as Insurance Committees. There is an Insurance Committee in every county and county borough in England, and it is with the Insurance Committee that the chemist makes his contract to supply drugs and appliances to insured persons, the terms of service which the chemist agrees to fulfil having been prepared by the Insurance Committee in consultation with the Pharmaceutical Committee and approved by the Minister of Health. At first it was intended that each Insurance Committee should make its own local arrangements, but it was found preferable that this bargain between the State, the Insurance Committee and the pharmacist should be dealt with as a national and not a local matter.

I have mentioned the fact that the Pharmaceutical Committee is consulted by the Insurance Committee in arranging terms, and I sometimes wonder if chemists realise the very powerful auxiliary they have in the Pharmaceutical Committee. The members are elected by the chemists in the county or county borough and the Act states that "the Pharmaceutical Committee shall, subject to regulations, be consulted by the Insurance Committee on all general questions affecting the supply of drugs, medicines and appliances to insured persons. . . . Do all Pharmaceutical Committees take full advantage of the powers conferred on them by the National Health Insurance Act? The chemist contracts "to supply drugs and appliances upon the terms for the time being in the area of the Committee." What are the more important of these terms in so far as they relate to drugs and appliances?

- (1) Medicines for insured persons are to be supplied with "reasonable promptness."
- (2) Drugs and appliances mentioned in the drug tariff are to be kept in stock.
- (3) All dispensing is to be done by or under the supervision of a registered pharmacist.
- (4) All drugs and appliances are to be of a standard grade or quality.

(5) All drugs and appliances are to be supplied free of charge to insured persons.

(6) Appliances means such medical and surgical appliances as may be for the time being prescribed by Regulations.

The use here of the word "prescribed" is rather unfortunate, as it is often taken to mean prescribed by the doctor, whereas it is the Minister of Health who does the prescribing in this instance. I sometimes marvel at the trouble taken by a chemist to procure some unusual medicine for an insured person, and I always admire his devotion to duty in this respect.

Recently we had a prescription which had been taken to a chemist in a county town. He had not the special drug ordered in stock, but he did his utmost to procure it by telephoning to six other local chemists, and by taking his car and calling on several chemists at a distance. Then he telephoned to a chemist in another town, and finally he took his car to London and triumphantly brought away the drug required. Occasionally we receive prescriptions for medicines unprocurable in this country, and the chemist has invariably taken a great deal of trouble in sending to Paris or Switzerland or America, as the case may be, for the required remedy.

A very important part played by the chemist is that of acting as a safety buffer between the doctor and the patient, as when the doctor, perhaps writing his prescriptions whilst garrulous patients reiterate symptoms, makes a slip that might if the prescription were dispensed as written have unfortunate consequences. Commenting upon a recent fatal poisoning case, "The Lancet" said: "Both the doctor and the patient are well served by the pharmacist's experience in interpreting prescriptions, and no prescriber would be willing to forgo the safeguard of the dispenser's expert and often critical eye." It is inevitable in a service of such magnitude that there should be certain anomalies, for Acts of Parliament are cumbersome machinery, regulations made to suit the prescribing of 1915 are out of date in 1930, and some of the treatment commonly used to-day was unheard of ten years ago.

If chemists feel that certain provisions of the Act are no longer adequate, then they should, through their representatives, state a clear case to the Ministry of Health. Their suggestions will at least receive careful consideration. One has only to look at the modifications in some of the provisions of the drug tariff during the last few years to realise the endeavour that has been made by the Ministry to remove some of the anomalies and even hardships which previously existed. Chemists sometimes complain that the prices allowed in the official tariff for certain drugs and appliances are too low, but it should be remembered that the prices have always been the subject of agreement between the Ministry of Health and the representatives of the chemists.

That the chemists of the country have justified their position as national dispensers is shown by the last report of the Minister of Health. Referring to the standard of treatment, he states that the extraordinarily high standard of accuracy in the dispensing of insurance prescriptions remains unimpaired. This is a fine tribute from a Minister of State to a body of men who, in the face of many difficulties, have loyally fulfilled their contract. Not only so, but they have acted as powerful helpers in this wonderful scheme of National Health Insurance by their courtesy to and their consideration of the insured person, in addition to their careful dispensing of the nation's medicine.

PHARMACY SAINTS IN NEW RÔLE.—St. Cosmo and St. Damien, who are jointly among the candidates for the office of patron saint of pharmacy—a subject discussed in our issue of August 7, 1920—made their appearance in the concert version of Stravinsky's "Les Noces," which received its first London performance on February 3. In this case, however, they are invoked by the assembled wedding guests with a request that the union "may prosper, endure from youth unto old age."

GLYN-JONES MEMORIAL UNVEILING

London, February 5

The President's Tribute

THE PRESIDENT, in opening the proceedings, said: "We are here to pay tribute to the memory of one who played an important and distinguished part in the history of our Society." After touching upon Sir William's early days and the influences by which he was surrounded, the president said he knew of nothing

on earth comparable to Welsh communal life in a small country town for the training of a man for public work. It was a university in itself. The Pharmaceutical Society began to know Sir William in 1895, when he issued a circular which afterwards became the "Anti-Cutting Record." Pharmacy at that time was in a very bad way. Capitalists had exploited it, and chemists as a class were suffering from the imposition of unfair conditions, for outside commercial interests were offering proprietary medicines under cost as a bait. Sir William Glyn-Jones conceived a way of fighting those conditions. During the next five years Sir William became known more and more throughout the country, and in 1899 he contested and won a seat on the Council, where he came "up against it" very quickly. At the first two meetings of the Council he brought forward resolutions of a somewhat stormy nature. During the time he was a member of the Council he studied for the Bar. He was called in 1904, and decided to resign his seat for fear that his work as a barrister might clash with his public duties. From that time he was not directly connected with the Society, but made a great reputation, his forensic ability becoming known throughout the country. Then came a time of danger to the men in pharmacy. A certain member of Parliament had

made a good deal of money by the sale of arsenic, and the Society prosecuted him, with the result that a Bill was introduced in Parliament which threatened to become a nuisance. The Council called upon the one man who could deal with the situation, Sir William Glyn-Jones, who became Parliamentary secretary at the time the 1908 Bill was before the House of Commons, and it must have been due to him that the Bill was framed which had proved of immense value to pharmacists. While Sir William was parliamentary secretary, his advice proved of great value to the Council, and to pharmacy generally. During many of those years he (the president) had the pleasure of work-

THE audience which assembled on Wednesday afternoon for the ceremony of unveiling the memorial plaque to the late Sir William Glyn-Jones filled the examination-hall of the Society, and was seated in the reverse way to that hitherto customary on ceremonial occasions, the reason, no doubt, being the position of the plaque. The speakers were the president (Mr. L. Moreton Parry), Dr. Addison (Parliamentary Secretary to the Ministry of Agriculture and Fisheries), the vice-president and the secretary. The president, in the course of a tribute to the subject of the memorial, was epigrammatic in characterising the Council of 1899 as "a Council of despair," and described the judgment of Mr. Justice Petersen in the test case of 1920 as an "excellent decision." Dr. Addison summed up the achievements of Sir William Glyn-Jones with the ready and felicitous skill of an accomplished speaker; his suggestion that the Pharmaceutical Society might epitomise their late secretary's services in their records will, no doubt, receive the attention it demands. The vice-president and the secretary, who respectively moved and seconded a vote of thanks to Dr. Addison, tactfully added something to the facts already presented to the gathering; strangely enough, however, none of the speakers mentioned Sir William's book, "The Law Relating to Poisons and Pharmacy," published in 1909 and still cited when doubtful points of pharmacy law arise.

The president was accompanied on the platform by the Rt. Hon. Christopher Addison, M.D., M.P., Mr. R. O. Rosslyn (sculptor of the memorial), the vice-president of the Society (Mr. A. R. Melhuish), and the secretary (Mr. H. N. Linstead). Among the audience were Mr. H. Antcliffe, Mr. F. Bascombe, Mr. F. E. Bilson, Mr. C. G. Bonner, Mr. F. Browne, Mr. H. E. Chapman, Mrs. Freke, Mr. F. W. Gamble, Mr. J. P. Gilmour, Lady Glyn-Jones, Dr. K. Glyn-Jones, Miss M. Glyn-Jones, Mr. H. Glyn-Jones, Mr. T. Hardy, Mr. J. Rutherford Hill, Mr. F. G. Hines, Mr. D. Lloyd Howard, Mr. John Humphrey, Mr. A. H. Jenkin, Mr. W. Johnston, Mr. H. Humphreys Jones, Mr. J. Keall, Mr. E. F. Linstead, Mr. G. A. Mallinson, Mr. T. Marns, Mr. E. J. Millard, Mr. C. A. Noble, Mr. E. Saville Peck, Mr. Philip F. Rowsell, Mr. F. P. Sargeant, Mr. E. H. Simmons, Mr. Herbert Skinner, Mr. T. Morley Taylor, Mr. Stanley Watson, Mr. F. G. Wells and Mr. Hugo Wolff.



Photo

[Eagle Photo Co.]

GLYN-JONES MEMORIAL PLAQUE

ing with Sir William, and of estimating the value of his advice. Sir William was the Society's Parliamentary secretary in 1911 when the Insurance Bill was introduced, and Dr. Addison would know well the part he played. During those tempestuous days Sir William sacrificed what might well have been an eminent political career for the sake of pharmacy. After rendering splendid service during the war, Sir William was knighted in 1919, and it was at that time he became secretary of the Society, a position in which he carried out work he had had in his mind for very many years.

The president referred to several other important achievements in the history of the Society, emphasising the work which Sir William Glyn-Jones had accomplished to make them possible. He laid especial emphasis on the trend of events which had led to the establishment of the Pharmacological Laboratories, now doing such excellent work, and alluded with satisfaction to the part the Society had played in helping to frame the Regulations under the Dangerous Drug Acts. Sir William Glyn-Jones, he went on, was a man with a wonderful store of knowledge and a gift of using it. After he became secretary of the Society it began to move on new lines. Sir William, indeed, lit a lamp, which he kept burning all through his association with the Society and handed to others to keep burning when he had passed away. That lamp would be passed from hand to hand by succeeding generations. (Applause.)

Dr. Addison's Speech

DR. ADDISON said he counted it an honour to have been asked to unveil the memorial. "It was my privilege to see another side of Sir William Glyn-Jones than that to which your president has referred," he proceeded, "and in some respects perhaps a more potent and influential side."

The first time he (the speaker) became associated with Sir William Glyn-Jones was in the stormy days of the National Health Insurance Act. Like Sir William, he (the speaker) was thrown into the whirlpool and turmoil, and it was there that they met. Sir William was a persistent advocate, and he well remembered the then head of the civil service section that was charged with bringing the Insurance Act into operation, saying that sometimes he despaired of Glyn-Jones. (Laughter.) For there were certain things on which Sir William was immovable, and those were the interests of his fellow pharmacists.

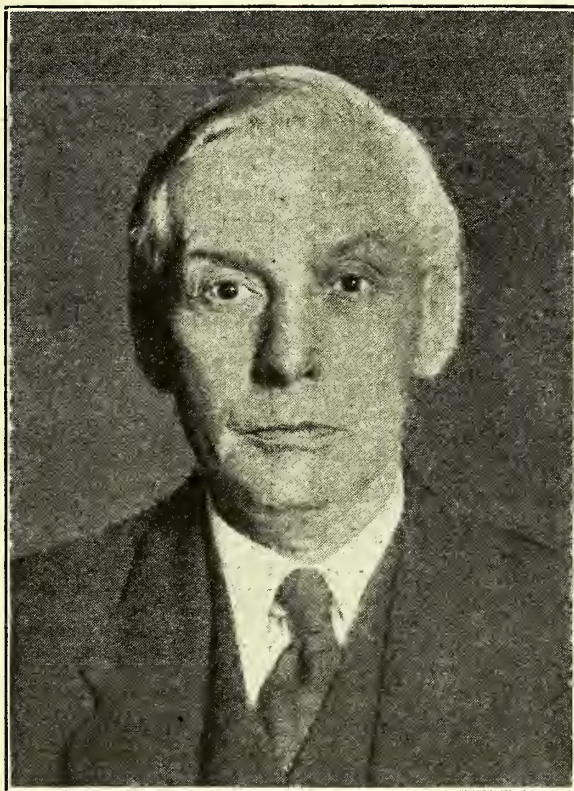
"What I am saying now," continued Dr. Addison, "has been modified since those days, but we used to say that he drove a harder and more successful bargain than any other section. Whether that was true or not I cannot say, but we used to say it. Every one of us who had to do with the organisation of that great machine recognised that Glyn-Jones's influence was far greater than even the numbers that he represented, and I think he rendered then and afterwards a service which is not measured in any written records. It is one of those services which is only perceived in a changed public attitude, more powerful than a statute. He brought into the minds of those influential in State departments

a new appreciation, a different point of view of those for whom he stood, and it was in that profound and important changed point of view that Glyn-Jones rendered, I believe, the greatest of all his services to the profession of pharmacy, because it made so many other things easy."

Dr. Addison said there were no prejudices or ignorance to be overcome when Sir William had been at work, and it was in that sort of thing that he was more influential than in any other way. It needed a certain type of man, who could not be trained, to do that sort of thing. Somehow or other some men and some women had the knack of being undeniable to the head of a State department, and some could never get there at all. "If you were to ask me why it is—not

being a psychologist, and having no particular liking for the art—I could not tell you at all," Dr. Addison declared. "It is one of those things you know when you see it. Thus it was that Sir William obtained a place in the appreciation of those he had to do with, a place which he never lost."

Dr. Addison recalled that later on it fell to his lot to be Minister of Munitions, and he had to look round the House of Commons for someone. He well remembered deciding that when the first change was made he would ask Glyn-Jones to help him, and from that time until the day Sir William left Parliament they were very closely associated. There he (the speaker) appreciated, as the Pharmaceutical Council must have done, that apart from being a distinguished and successful member of the pharmaceutical profession he was a man of affairs. Dr. Addison said he was glad that Lady Glyn-Jones had been able to attend that day, because only those who went through it in the particular section of the State's work in the days to which he had referred could imagine the everlasting stress that prevailed; and he (the



Photo

[Universal

THE RT. HON. CHRISTOPHER ADDISON, M.D., M.P.,
Parliamentary Secretary to the Ministry of Agriculture and Fisheries.

speaker) knew from many a conversation what a debt Sir William owed to Lady Glyn-Jones. (Applause.) Sir William had to turn his hand to all sorts of jobs.

"In the case of Glyn-Jones," Dr. Addison remarked, "I had a man whose watchfulness was unceasing. The pitfalls and the mistakes before us were innumerable. A good many mistakes were made, of course, and it was Glyn-Jones's duty to look out for them and provide against them. Nobody in those days had a more loyal, persevering and ever-vigilant parliamentary secretary than I had." (Applause.) Then later on in the days of the Ministry of Reconstruction, he (the speaker) had to address his mind to clearing up whenever the day might come on all sorts of issues, from demobilisation to the shipping of grain, and a thousand other questions, many small, some very big. He used to call on Glyn-Jones to take charge, advise or initiate half a dozen quite different things, and found that he was a man who could readily adjust himself to different conditions. In common parlance, Sir William was quick in the uptake. Otherwise he would never have been the success that he was. He was the best kind of friend, because he pointed out when they were wrong,

and in parliamentary duties a man who would do it was invaluable. Sir William's conclusions were not dictated by prejudice, but by the facts of the case. Many and many a time he (the speaker) and many others received wise and correct advice from Sir William Glyn-Jones. He was glad that the Pharmaceutical Society had decided to place in their central hall a permanent memorial to Sir William, for apart from symbolising the work he had done, it would prompt men and women at all times to inquire who he was, and it was the results of such inquiry that were so often stimulating.

Dr. Addison expressed the hope that some time, somehow the Society would epitomise a memorial of the services of Sir William in their records, so that they might be available to present to future members. Sir William's record illustrated extraordinarily well the characteristic particularly of the British race, that a man in his time played many parts. That was very true of him, and he (the speaker) could say quite frankly that so far as he knew Sir William never failed in any part. He had the great merit of knowing when a particular task proposed was not particularly suited to him, and he never failed to make the suggestion of someone else. It was not because he shirked the task, for his courage and pertinacity were enduring characteristics. Sir William died in harness, in the inauguration of a new branch of pharmaceutical work in one of the Dominions. He struggled a long time against the infirmity from which he suffered, and it never affected his outlook or the vigour of his mental processes. He was ever alert, keen and far-sighted. "I myself owe him a great debt," said Dr. Addison, "the sort of debt which is gradually piled up between one man and another in the many little services and pieces of advice which make up for the most part the tale of our daily life of work apart from the outstanding things. He was a fine citizen and a noteworthy member of your profession, and, above all, he was a courageous and a loyal friend; and I hope that in the records of your Society you will produce many more who will follow that lead." (Applause.)

Dr. ADDISON then unveiled the memorial, and a flash-light photograph was taken.

The PRESIDENT paid a tribute to the skill of the sculptor of the plaque, and read apologies for absence from Sir Malcolm Delevingne and Dr. A. Cox.

Vote of Thanks

Mr. A. R. MELHUISE (vice-president), proposing a vote of thanks to Dr. Addison, said no more appropriate selection could have been made for the honour of unveiling the memorial, for there were so many points of similarity in the work of the Doctor and that of Sir William Glyn-Jones. Dr. Addison had paid a tribute to a great and outstanding personality. (Applause.)

Mr. H. N. Linstead (secretary), in seconding, referred to Sir William Glyn-Jones as his old chief. Amid the many distractions and diverse interests of his life, Sir William never forgot his affection and interest for pharmacy. As he (the speaker) had listened to Dr. Addison, he could not help recalling the far-seeing vision of Sir William on matters of policy, and this never failed him even when he gave an opinion at short notice. His skill as an advocate was demonstrated at many delegate meetings, where by sheer force of advocacy he had brought audiences to his point of view. The memorial would be an inspiration to all of them. They knew or half guessed at some of the goals Sir William had aimed at, and the memorial would be something to make them keen to bring those goals nearer. (Applause.)

The vote was carried with acclamation.

AGRICULTURAL RESEARCH.—The Royal Agricultural Society of England, 16 Bedford Square, London, W.C.1, has just published, 1s. 3d. post free, its fourth annual summary of the practical results of agricultural research in 1928. This comprehensive review deals with the following subjects: Crops and plant breeding; dairy husbandry; agricultural economics; agricultural engineering; animal nutrition; soils and fertilisers; veterinary science.

Retail Pharmacists' Union

Executive Meetings

MEETINGS of the Executives of the Retail Pharmacists' Union and Chemists' Defence Association were held at 4-5 Queen Square, London, W.C.1, on January 28, Mr. H. Gilleghan in the chair.

A report was received stating that the British Medical Association proposed calling together their National Formulary Committee, and that there would probably be some revision of the Formulary, although a complete revision could not be undertaken at the present time.

A letter was received from the Standards Department, Board of Trade, in reply to a complaint made by the R.P.U. regarding the incorrect markings on stamped measures. The Department stated that if measures were to be verified so far as each intermediate graduation was concerned, the scale of fees would have to be revised, and this would increase the cost of the measures. The Executive decided that there was not sufficient evidence of inaccuracy to warrant chemists being put to the additional trouble and expense of extra verification.

The Executive considered further the question of allocating an extra fee for D.D.A. prescriptions; while endorsing the principle of an extra fee, they decided that the state of the drug fund did not permit of an adequate fee being paid at the present time.

The Executive had been asked to press the film manufacturers to produce a four-exposure film for 6d. It was decided to bring the matter to the notice of the Photographic Dealers' Association. The Executive were also asked to give assistance to the P.D.A. in regard to the maintenance of the retail prices of photographic goods.

The Executive considered the position which had arisen in regard to the number of articles which are now being supplied unstamped for sale by chemists only, and, at the same time, the stamped articles are still being supplied to other dealers, the cost price to chemists remaining the same. The Executive decided that further representations should be made to the firms, pointing out that it would be to their advantage to see that there was a difference in the cost prices of the stamped and unstamped lines.

The Executive decided that evidence should be given before the Licensing Commission on behalf of the R.P.U. in conjunction with the Pharmaceutical Society, a suggestion to that effect having been received from the Society. It was agreed that the secretary should have authority to draft and give the necessary evidence in conjunction with the secretary of the Society.

C.D.A. Matters

The secretary reported that of the twelve cases outstanding since the last meeting of the directors two might be considered closed, and in six of the cases settlements had been effected as follows.—Death caused by pot. nitras supplied instead of Epsom salts; claim settled by payment of £31 10s. Illness caused by medicine; claim settled by payment of £3 3s. Damage to suit caused by ignition of pot. chlorat. tabs. carried in pocket; claim settled by payment of £3 10s. Injuries caused by Kodak film machine falling on child; claim settled by payment of £75. Injuries caused by fall through cellar door; claim settled by payment of £17 6s. 6d. Injuries caused by Kodak film machine falling on child; claim settled by payment of 19s. 6d.

The secretary reported that seventeen new cases had arisen since the last meeting, seven of which had been settled:—Illness caused by pot. nit. supplied instead of mag. sulph.; claim settled by payment of £2 15s. Damage to clothing caused by faulty cork; claim settled by payment of £1 0s. 11d. Christmas puddings spoilt by powdered nutmeg supplied; claim settled by payment of 10s. Damage to clothing caused by faulty cork; claim settled by payment of 6s. 9d. Injuries caused by cycling errand-boy; claim settled by payment of £8 8s. Damages to shoes caused by faulty coal chute; claim settled by payment of 10s. Injuries caused by cycling errand-boy; claim settled by payment of £15.

Trade Notes

F. W. HAMPSHIRE & Co. (1927), LTD., Sunnydale Works, Derby, inform us that in future their Snowfire Jelly will be known under the trade-mark Snowfire Visil.

PINOLEUM PRODUCTS.—Elsewhere in this issue appears a notice regarding the distribution of Pinoleum products. Retailers can obtain supplies through the usual wholesale channels.

PYRETHRUM EXTRACT.—Forwood Brothers & Donaldson, Ltd., Ropemaker Street, Finsbury, E.C.2, can supply a pyrethrum extract suitable for making domestic and agricultural insecticides.

THE ABIETSAN MANUFACTURING Co., LTD., Concordia Works, Manager's Street, London, E.14, in forwarding us the accompanying illustration of a window display of Westminster Cologne, enclosed a copy of the letter received from the chemist who arranged it. The letter states: "In thanking you for the display material sent with Westminster Cologne. I wish to congratulate you



on the effectiveness of the colour scheme. The lustre-gold background relieved by the lavender and purple crêpe emphasise to the full the clear-cut bottles with their lavender caps. The showcards with their crisp individuality complete a display which has the dual advantage of speedy dressing and of harmonising with adjacent shows, and the resulting sales have more than justified the space allotted to it."

SUDOX SENNA PODS are marketed by The Sudox Co., 6 Fen Court, London, E.C.3. Hand-picked and of excellent quality, the pods are packed in cartons to retail at a popular price. A sample packet will be sent to C. & D. subscribers on application.

W. H. HOBBS & Co., LTD., essential oil merchants, London, E.C.3 are sending out a desk calendar, which can be hung if desired, of unusual design. The front

consists of a bevelled mirror with a movable calendar inserted and bears a striking figure of their well-known trade-mark.

BUSH, BEACH & GENT, LTD., Marlow House, Lloyd's Avenue, London, E.C.3, in conjunction with Frank Segner & Co., Ltd., 21 Spring Gardens, Manchester, have been appointed sole selling agents for the Chemical and Metallurgical Corporation, Ltd., Runcorn, Cheshire. Some the chief products produced by this corporation are sulphuric acid, dipping acid, accumulator acid, hydrochloric acid, pure ammonia, sulphate of ammonia, red lead, zinc chloride, Glauber salt's, saltcake, tinning flux, and kemsol.

DARWIN BLADES.—A national advertising campaign for Darwin cobalt steel safety razor blades is about to be launched by Darwins, Ltd., who have set aside a large appropriation for the purpose. Linked up with the Press announcements will be a prize distribution scheme in which chemists will participate. Sales offices have been established in Eros House, 29-31 Regent Street, London, S.W.1, in charge of Mr. O. Paterson. Although supplies will be obtainable only through wholesalers a staff of representatives will shortly visit chemists. It is the intention of Messrs. Darwins, Ltd., rigidly to maintain the retail price.

Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1930, p. 341.

(From "The Trade Marks Journal," January 29, 1930.)

- "HALL'S MENTHO-LYPTUS TABLETS" with label design ("Hall's" disclaimed); for medicated menthol and eucalyptus sweetmeats (3). By Hall Bros. (Whitefield), Ltd., Stanley Street, Whitefield, nr. Manchester. 506,990. (Associated.)
 - "AYKEV"; for medicinal chemicals (3). By S. Winroope, 23 Market Place, Great Bridge, Staffordshire. 507,821.
 - "HEMOPANILINE"; for medicinal chemicals (3). By L. J. M. Plantier, 19 Boulevard de la République, Annonay (Ardèche), France. 508,370. (Associated.)
 - "MILCHA"; for medicinal chemicals (3). By Richfield, Ltd., 23 Cheapside, Bradford, Yorkshire. 508,376.
 - "BEECHAM'S"; for pills and medicinal powder. (3). By Beechams Pills, Ltd., Veno Buildings, Chester Road, Manchester. 508,487. (Associated.)
 - "BIANTIN"; for medicinal chemicals (3). By E. Merck, Frankfurterstrasse 250, Darmstadt, Germany. 508,987.
 - "SEMBOL BRAND"; "MUSKON BRAND"; for medicinal chemicals (3). By H. R. Napp, Ltd., 3 & 4 Clement's Inn, Kingsway, London, W.C.2. 509,077; 509,151.
 - "RAINBOW"; for photographic apparatus, etc. (8). By Kodak, Ltd., Kingsway, London, W.C.2. 507,075.
 - "AERUB"; for surgical instruments, etc. (11). By The St. Albans Rubber Co., Ltd., Finsbury Court, Finsbury Pavement, London, E.C.2. 508,779. (Associated.)
 - "REAL ESSENCE" with label design ("Real Essence" disclaimed); for perfumes and toilet soap. (48). By G. Boehm, Rathenhausstrasse 26, Offenbach-on-Main, Germany. 499,861. (Associated.)
 - "SANOCIN"; for cosmetics (48). By C. Cronquist, Baltzarsgatan 25b, Malmö, Sweden. 506,611.
 - "AFROLINE"; for pomade (48). By Blondeau et Cie, Ltd., Lever House, Victoria Embankment, Blackfriars, London, E.C.4. 507,265.
 - "FRIGOR"; for an emollient toilet cream (48). By Maison Dorin, 60 & 62 Rue Wattignies, Paris. 499,614.
 - "STRINGENDO" in script characters; for toilet lotions (48). By Powell & Algar, 45a Preston Road, Brighton. 508,503.
 - "BABARINA"; for perfumery, etc. (48). By W. B. Cartwright, Ltd., Mount Vernon Road, Larkfield, Rawdon, nr. Leeds. 509,144.
 - "GRIPTIGHT"; for feeding bottles (50). By L. Woolf, Ltd., Windmill Street, Horse Fair, Birmingham. B508,309.
- (From "The Trade Marks Journal," February 4, 1930)
- "SHIRLAN"; for a chemical for preventing mildew (1). By British Dyestuffs Corporation, Ltd., Imperial Chemical House, Millbank, London, S.W.1. 506,916.

Births

Notices for insertion in this column must be properly authenticated.

CLEMENTS.—At Fairview Nursing Home, Belfast, on January 27, the wife of W. Clements, M.P.S.N.I., 105 York Street, of a son.

JEYES.—At Holly Lodge, Boughton, Northampton, on January 30, the wife of John T. P. Jeyes, chemist and druggist, of a son.

Marriages

McGIMPSEY—MANSON.—At Ballygilbert Presbyterian Church, Bangor, co. Down, on January 23, Hugh Campbell McGimpsey to Elizabeth, eldest daughter of the late Mr. David Manson, R.D., 82 Groomsport Road.

ROBERTS—ROBERTS.—At the Congregational Church, Criccieth, on January 29, S. H. Roberts to Myfanwy Roberts, chemist and druggist, daughter of Mr. W. E. Roberts, chemist and druggist, Pwllheli.

Deaths

LEWIS.—At 24 Glendinning Street, Seedley, Manchester, on January 29, Mrs. Agnes Lewis, wife of the late Mr. Robert Oakeley Lewis (Edinburgh representative of James Woolley, Sons & Co., Ltd., and other wholesale houses), aged ninety-two. Interred at Weaste Cemetery, Salford, on February 1.

MAVLANKAR.—At 492 Merton Road, Merton, S.W.18, on February 1, Mr. Kershav Balkrishna Mavlinkar, aged fifty-eight. The late Mr. Mavlinkar came to this country from India in 1908, after acting for three years as business manager for the Alembic Chemical Works. He commenced business in a small office in Bishopsgate and built up a large merchant's business in perfumery and flavouring raw materials. Later he purchased a factory and premises at Yiewsley and Chiswick for the manufacture of aromatic synthetic chemicals. During his business life in England, Mr. Mavlinkar acted as agent for several well-known Continental essential oil houses, but he will be generally remembered as the sole distributor throughout Europe for the Mysore Government sandalwood oil. The funeral service took place on February 4 at Golders Green Crematorium in the presence of various members of the trade and a large company of Indian gentlemen. Mr. Mavlinkar left a widow and two children. The business will be carried on by the trustees to his estate.

NIXON.—Recently, Mr. Leonard Nixon (L. Nixon (Chemists), Ltd.), 403 Waterloo Road, Hanley, Stoke-on-Trent, aged forty-three.

SMITH.—At his residence, Rathlea, Brownhill Road, Blackburn, on January 29, Mr. James Smith, senior partner in the firm of James Smith & Sons, wholesale druggists, aged sixty-seven. Mr. Smith founded the business in 1896 in Lord Street, and removal to Clayton Street took place in 1908. He leaves a widow, three sons and a daughter.

SWINNERTON.—At Modbury, on January 28, Mr. George Swinnerton, chemist and druggist, aged forty-nine.

Wills

MR. DAVID REID, M.P.S., of Hazelwood, Howell Road, Exeter, a partner in the firm of Broom, Reid & Harris, of Queen Street, Exeter, left property of the gross value of £14,479 13s. 4d., with net personalty £12,797 14s. 10d.

MR. EDWARD JAMES KIEFT, of 72 Robert Street, Manselton, Swansea, chemist and druggist, left estate of the gross value of £3,220 11s., with net personalty £1,826 16s. 9d.

Personalities

NOTICE is given in "The London Gazette" that Harris Boogdaner, 56 Mile End Road, London, chemist and optician, has assumed the name of Harry Bogdanor by deed poll.

MR. S. LAMPLOUGH SCOTT, F.C.S., chemist and druggist, who has represented British Colloids, Ltd., on the South Coast for the last ten years, has been appointed their representative in New York State and expects to be in the United States of America for the next three years. He requests his many friends kindly to accept this note in place of the personal letters which he would have written had time permitted. Mr. Scott, who will also be remembered as one of the Fairchild scholars, was at one time in the Wesleyan Methodist ministry.

MR. E. H. BOWDLER, chemist and druggist, after being in business in Wolverhampton for many years, recently migrated to Lichfield, where he took over the business of Mr. W. Charrington, chemist and druggist. The members of the Wolverhampton and District Chemists' Association took advantage of a social event held on January 30, at the Victoria Hotel, Wolverhampton, to bid farewell to Mr. and Mrs. Bowdler, and to make a presentation. Mr. Bowdler is an original member of the present Chemists' Association (founded 1900); he has served on the Committee, and was president for two years, 1917-18. The presentation was made by Mrs. C. M. Warner, who handed to Mr. and Mrs. Bowdler an entrée dish and a flower bowl or fruit dish. Mr. C. M. Warner and the secretary (Mr. S. Phillips) made short speeches, and were supported by Dr. A. Byrne-Quinn, who spoke highly of Mr. Bowdler.

MR. ERNEST A. WARD, chemist and druggist, Penylan, Cardiff, the newly elected president of the local association and branch of the Pharmaceutical Society, is one of the younger members of the profession. He was apprenticed in 1914 to Mr. E. G. Howell, chemist and druggist, Whitechurch Road, and in 1917 he joined the Royal Army Medical Corps. During the next few months he saw service in Egypt, and before demobilisation he had attained the rank of sergeant. After further experience with Mr. Howell, he passed the Qualifying examination in 1922 and then became manager of the Penarth establishment of the late Mr. J. Blake. He commenced business on his own account in 1924.

Mr. Ward has spent much of his leisure time in promoting the welfare of local pharmaceutical organisation; in 1926-28 he was secretary of the local branch of the Retail Pharmacists' Union, and assistant secretary and later secretary of the Cardiff Pharmacists' Association. In connection with the meeting of the British Pharmaceutical Conference he is acting as convener for the entertainments committee.



MR. E. A. WARD

Information Department

INFORMATION WANTED

M/201.	Anrol	M/311.	Duoform
C/42.	Acetyl foil or acetone foil (transparent wrapping material, also suitable as a substitute for glass and tin containers)	M/42.	Merlin Essence of Violets
S/52.	Bird's Essence (Horse Blister)	M/52.	Ramworth's ozonising outfits
H/291.	Chauvin's eye baths	F/301.	Sangster (or Sanxter) disinfectant and liquid antiseptic
		M/42.	Stomosine

Observations and Reflections

By Xrayer III

Your Statement

of the position in the matter of the sale by licensed traders of poisons which their licences do not authorise them to sell (*C. & D.*, February 1, p. 136) is sufficiently serious to merit close attention, particularly by those responsible for the administration of the Pharmacy Acts. I should not like to think that the Council of the Pharmaceutical Society has been so lax in its duty as to overlook entirely the encroachments which you rightly denounce as being opposed to the public interest; but there is an uneasy feeling abroad that officialdom at the Society's headquarters may be securing too much control during such time as the Council is kept occupied by undue attention to merely routine business, and that consideration of schemes of aggrandisement may be tending to keep matters of greater import in the background. This, of course, is not as it should be, since the protection of the public and of those who carry on the business of chemists and druggists have the first claim upon the Council. So long as the administration of the Pharmacy Acts remains vested as at present, the legal duties attached to such administration ought to be fulfilled without fear or favour by our elected representatives, and they should not allow the possibility of being charged with working for the benefit of chemists and druggists to deter them from taking any action likely to safeguard the public interest. It is all to the public good that the handling of poisons should be restricted as closely as possible to chemists, and the benefit accruing to the latter in respect of their so-called "monopoly" of the sale of poisons is never likely to be sufficient to excite envy in any quarter where reason prevails.

The Speech

of the president of the Pharmaceutical Society at Liverpool,¹ when he was installed as president of the local association (*C. & D.*, February 1, p. 129), provides in itself evidence of the extent to which matters of comparatively secondary importance are being allowed to mask the greater issues which are now at stake. Not a word about constructive policy in the direction of taking steps to limit the use of the word "pharmacy" as a place name, or to reform the system of dispensing medicines throughout the country, or to rationalise the sale of poisons, or to protect chemists' ancient privileges in connection with the sale of medicated spirituous preparations and of medicines that may be supplied without the duty stamp. Instead, we are favoured with the thrice-told tale of arrangements being made for a new British Pharmaceutical Codex and of a laboratory in which research work is being undertaken; in addition, we are told how the Society's examination system is to be assimilated to that of the universities, and Mr. Parry is not frightened as to the result of the report about coming legislation.

Chemists' Licences

in Northern Ireland fell due on January 1, we are informed in your Irish news (*C. & D.*, February 1, p. 126). This comes as a reminder that our fellow craftsmen in the northern part of the sister isle now have to pay for the privilege of carrying on business, by taking out an annual licence. Part of the proceeds is retained by the Government to meet, in some degree, the cost of administering the pharmacy law, and the other moiety is handed over to the Pharmaceutical Society of Northern Ireland as a contribution towards its expenses. Thus is compulsory membership of the Society enforced, and this, I venture to suggest, is the only way, other than by persuasion, in which non-subscribing chemists and druggists can ever be forced to pay toll to the Pharmaceutical Society of Great Britain. Not that all chemists and druggists on the Register would then be included in the fold, because it is only those engaged in actual practice to whom compulsion could apply. I am of those who would welcome

a report by the Inter-Departmental Committee containing proposals of so drastic a nature that chemists and druggists would be compelled to get together in self-defence and put a period to the marking time of the past three years.

The Ripples

on the pharmaceutical pool caused by the incidence of Pharmacy Week are still visible. One consequence of it is that in the minds of its older practitioners there must be comparisons made as between these present times and those in which they began their careers. I should like to have heard Mr. Hindle's lecture at Sheffield (*C. & D.*, February 1, p. 129), because I, too, am old enough to be pardoned for indulging in reminiscences. To mark the contrast between pharmacy eighty years ago and now let me give an incident which happened to my father as a London assistant in a Northern suburb. Late one winter's evening the doctor for whom the pharmacy undertook the dispensing rushed in to ask the aid of the assistant in giving a clyster to a patient who was dangerously ill. On arrival in the sickroom the doctor said to the young chemist: "I am sorry, but I dared not tell you before—the case is one of confluent small-pox." Fortunately there were no untoward consequences for the assistant. The possibility of such dangers have passed away, as has also the need for long hours; but other things have disappeared also in very large measure.

It was very good Fortune

which led to my sojourn as a young assistant with a chemist in a North London suburb. He was, perhaps, not quite typical of his time, which at all events knew but little of the phase—soon to reach a spate—of price-cutting of proprietary articles. The shop was opened at half-past eight, the shutters were put up at nine at night, and the door was not finally closed until ten o'clock. Toilet articles and proprietary medicines were reckoned of little account; the business was almost entirely concerned with the dispensing for a firm of medical men (there were two partners), and there was a good deal of general dispensing for the neighbouring residents, who were of the moneyed class, whose men-folk were of importance in the City. Harley Street prescriptions, of which those of Sir William Gull and Dr. Balmanno Squire were typical, were quite usual. In the morning the proprietor and the apprentice generally had an interval of an hour or an hour and a half for a walk or a trip to the City. The assistant had an occasional half-day's holiday, and was off duty every second Sunday. Dispensing occupied the afternoons and evenings continuously until nine o'clock, including Saturdays. What were the compensations for such labours? it may be asked. Recreations consisted in an occasional visit to a good concert or to a play. The pharmacist himself was a man with a personality impressive enough to make a noteworthy place in my recollections. He esteemed it a public service to play his part well and conscientiously. When irritation aroused an expression implying the hard conditions of such services, he would retort upon those who sought a refuge from them by residing away from the premises by asking what was a chemist for but to provide medicines morning, noon and night if they were required?—and this he could not do unless he resided on the premises.

It would not be Fair

to omit to say that this pharmacist was a man who found his recreation in ways reacting upon his assistants, so as to widen their horizons and sharpen their vision. He was a disciple of Professor Huxley and a personal friend of Mr. Edward Clodd. His interest in general culture and his connoisseurship in pottery of all kinds provided a mental stimulus for us who sat at table with him; these matters salted our pharmaceutical discourse. Whether the late Sir Frederick Wedmore knew him I do not know, but that writer's little story: "A Chemist in the Suburbs" (published in 1891) might be in some respects a picture of my friend. It seems to me that even now pharmacists would do well to ask themselves which is the greater in the development of their vocation—personality or organisation.



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Editorial Articles

The Privy Council

THE coming into force of the first Dangerous Drugs Act created a situation of some actual and much potential difficulty, arising from the fact that from that time onward two government departments instead of one have been responsible for administering the laws of this country relating to the sale of poisons; and it is to be presumed that the Inter-Departmental Committee, of whose proceedings we have heard so much and known so little, has addressed itself to this important question. We propose to outline the history of the Privy Council, the older of these two bodies, and the one charged with regulating the sale of poisons since the Pharmacy Act, 1868, was passed, in the belief that any discussion which may arise on the problem of the single or dual control of scheduled poisons should be founded on an adequate conception of the relative position of the Privy Council and the Home Office in state affairs. There is ample material available for the study of the Privy Council in its historical aspect. For those who desire a popular account, Sir Almeric FitzRoy's

History, published in 1928, will suffice; anyone who wishes to be more exactly informed may consult F. W. Maitland's "Constitutional History of England," Sir William Anson's "Law and Custom of the Constitution," J. F. Baldwin's "The King's Council," and other authorities, and may explore the "Acts of the Privy Council of England" in the Calendar of State Papers. The Consilium and Curia Regis of the Norman kings had two aspects, "that of a large body available on fixed occasions by general summons and a small body practically in constant session in immediate contact with the King." It is easy to realise that many subsidiary bodies might spring from so adaptable an arrangement; and, in fact, the Judicial Committee of the Privy Council and the Committee which has now become the Board of Trade are two instances in point. With such developments as the early differentiation of the Chancery from the Council we cannot here concern ourselves: the feature we desire to illustrate is that in its long and honourable history the Council has been "a great secretarial bureau, a Home Office, a Foreign Office, and a Ministry of Justice"—and much besides. Orders in Council, for example, date back to about the middle of the fourteenth century; and the growth of modern affairs has brought into existence a separate type of pronouncements of humbler utility known as Orders of Council. Even in very early times the Council was restrained, on the whole, from excess by the force of important interests corresponding to what we now call public opinion. It attained its greatest importance, perhaps, in Tudor days, when its function was "to teach not only Parliament to legislate but justices of the peace to govern and judges and juries to execute justice." It thus provided an element of continuity and set a standard at times when public affairs were in a state of flux and responsible people hardly knew where to look for stability. Its duties have, in the nature of things, covered a range co-extensive with the greater part of English life, and, since 1707, that of Scotland also. As is well known, the Cabinet was at first a committee of the Council; and until the process of devolution of function was well advanced, the Council's time was occupied with details some of which might well have been entrusted to local bodies. On the other hand, it carried on the regency of the kingdom during minority periods, and held one of its most important meetings in the presence of the dying Queen Anne. In the choice of its committees—that, for example, appointed to supervise scientific and industrial research—it has carried out an enlightened policy which is already having tangible results. The close relationship between the Council and the Pharmaceutical Society of Great Britain in examination and other procedure is to a great extent paralleled by the Council's statutory relation to the medical, dental and veterinary professions. It follows from this brief consideration of the place that the Privy Council occupies in the life of the Empire that only the soundest of reasons can justify any future proposal to vary the control of the Council in matters in which it rightly obtains the advice of experts.

The Position of Turpentine

WHATEVER may be said in regard to over-production or excessive supplies of various commodities, including, for example, sugar, tea, cocoa, rubber, shellac and practically all metals, this does not apply to turpentine oil and resin, although there was a recovery this season in the American crop, which was estimated at about 16 per cent. greater than the appreciably reduced yield of the preceding season. It would seem even somewhat doubtful whether the increase in the total season's yield will be quite as much as indicated above, judging from the reports in the last few weeks showing a rather sharp decline in the American receipts in the South. Reserve stocks there have been in consequence again reduced. It is, moreover, interesting to note that trustworthy information placed the combined stocks in American ports and London at the close of the past year at about 15,000 barrels less than a year previous. This certainly speaks well of the statistical position considering the much better yield. Apart from this, there is another point to bear in mind, which refers to the possibility of a setback in the yield of the next crop, although it is as yet premature to attach much importance to such a contingency as a good deal depends on weather conditions within the next two months. All things considered, producers of resinous products have met with disappointing results in the current campaign, notwithstanding an improved consumption. As already mentioned in our issue of November 30 last (p. 657), when our last survey of the position was made, turpentine, like many other commodities, has suffered from the industrial disturbances which were inevitably caused by the panic in Wall Street over last autumn. Prior to this disturbing factor, the tendency of the market was quietly shaping upwards with the London spot price, which stood at about 42s. 6d. per cwt. in the earlier part of August, gradually rising to fully 45s. by the beginning of October, as the result of a considerable contraction in the American receipts and also the stocks, in consequence of adverse weather conditions in the turpentine belt. But for the grave Wall Street crisis, turpentine possibilities, which were on its merits viewed in a fairly optimistic light, would doubtless have been translated into an upward movement similar to that experienced in the closing months of 1928. As it happened, however, the commodity suffered more or less in sympathy with other products under the general lack of confidence. The phenomenal losses sustained in unloading securities in Wall Street were bound to affect industrial interests directly or indirectly in one direction or another, while new enterprise in commodities was kept in abeyance over a certain period. The outlet for cellulose paint largely used in the automobile industry has undoubtedly been much interfered with as the direct result of the crisis particularly in that big industry, but in the ordinary paint and varnish trades, it is unlikely that the outlet for turpentine spirit has been much affected. A certain amount of prejudice, nevertheless, has clung to the demand for the latter pending further indications as to industrial prospects for the spring season. It looks, however, as though the American financial and industrial situation is gradually righting itself, albeit a more cautious policy is being pursued in the mapping out of new programmes. After closing in December at 42s. 6d. or 6s. 3d. per cwt. lower than a year previous, the spot value of turpentine advanced to 43s. 9d., but last week shed the improvement simply on account of a temporary lack of interest, and closed at 42s. 9d. There seems, however, to be ample resistance at around the current level, which is considered relatively low based on statistical merits. Deliveries into consumption at this end so far this year have been a fair average, and not a few of the dealers or importers seem of opinion that market prospects are rather in favour of the establishment of a higher level of prices.

Pharmaceutical Society of Great Britain

Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C.1, on February 5, Mr. L. Moreton Parry (president) in the chair. There was a full attendance of members.

ELECTIONS AND RESTORATIONS

One hundred and twenty persons were elected members of the Society, and seventy-three as student-associates. A number of persons were restored to the Society, and thirty-one to the Register. The registrar reported that 172 persons had been registered as apprentices or students.

RETIRING COUNCILLORS

The secretary reported that the following members of the Council retire in May next:—Freke, Alice; Guthrie, Thomas; Hardy, Thomas; Jack, James; Keall, John; Neathercoat, Ernest Tom; Sargeant, Frederick Pilkington.

REGISTRAR'S REPORT

The registrar submitted his report for the year 1929. The following summary embodies the chief features:—

The subscribers to the Society are 1,006 life compounders, against 1,014 in 1928; 13,502 annual subscribers, against 12,986; and 1,400 student-associates, against 1,621. The number of apprentices or students registered is 1,423 (1,211 in 1928). An analysis of the examinations in London for the year shows the following:—Pharmaceutical Chemist, 38 candidates, of whom 17 were successful (in 1928 the respective numbers were 19 and 10); Qualifying, 3,939, of whom 763 passed (in 1928 the corresponding numbers were 3,332 and 647). In Edinburgh there were 13 candidates for the Pharmaceutical Chemist, of whom 9 were successful (in 1928 there were 4 successful candidates out of 8 entrants); for the Qualifying, 1,822 candidates, of whom 431 passed (in 1928 the numbers were 1,379 and 326 respectively). The number of pharmaceutical chemists on the registers on December 31, 1929, was 1,825, and of chemists and druggists 20,788, a total of 22,613. (In 1928 the respective numbers were 1,838, 19,822, and 21,660.) The register of superintendents of bodies corporate in Great Britain, and of firms or partnerships in Scotland, contains 1,449 names (1,401 in 1928). In 276 cases of alleged infringement of the Pharmacy Acts proceedings were instituted (240 in 1928). The number of shops investigated with a view to ascertaining whether a certificate of qualification was exhibited was 6,839 (5,707 in 1928), and 2,030 "drug stores and other shops" were also visited.

The REGISTRAR, commenting on the report, said there was an increase of 516 members during the year. The number of student-associates had decreased by 321, but apprentices increased by 212. Additions to the Register of Chemists and Druggists numbered 966, while there was an increase in the number of shops visited of 1,460.

Mr. ROWSELL said he was sorry to notice the decrease in student-associates. Every effort should be made as early as possible to induce the younger men to take an interest in the Society.

BOARD OF EXAMINERS' REPORT

The annual report of the Board of Examiners for England and Wales was presented. The following are the principal passages:—

The work at the examinations before October seems to show that many candidates entered insufficiently prepared, in the hope of passing before the new conditions came into force. In some cases the note-books submitted were only initialed. There was no statement certifying the college at which the work was done. . . . In physics in particular many note-books showed that the experimental work done had not been sufficiently comprehensive. In some instances whole sections, such as electricity, were missing; generally in those cases the books were also very carelessly written.

Botany.—A large proportion of the successful candidates only just reached the necessary standard. The majority of the candidates still displayed great weakness in their know-

ledge of fundamental morphological and anatomical characters, although it is satisfactory to note that there was some slight improvement in the acquaintance with some of the essential principles of plant physiology. The work of candidates who took the new type of examination showed a good average standard. On the whole the theoretical was in advance of the practical knowledge.

Chemistry.—There was still evidence that the teaching of many candidates had been confined to a narrow interpretation of the syllabus without the underlying principles being clearly grasped, so that no real understanding of the subject was obtained. There was too much tendency to regard chemistry as a collection of unrelated facts. In the written papers there was a very marked difference in the standard of the answers; some being very good and others extremely weak. The standard of the practical work has improved both in accuracy and in general manipulation.

Physics.—The average standard of attainment of the candidates examined orally was distinctly poor. . . . In the written examination under the new conditions in October, however, the results were satisfactory; the proportion of passes was, in fact, somewhat higher than the examiners expected.

Pharmacognosy.—The candidates examined under the old conditions still showed, on the whole, a very superficial knowledge of the subject. They often admitted that they had never carried out any qualitative tests or seen them carried out, and had evidently had a very inadequate practical training. The candidates examined under the new conditions showed in their written papers strong evidence of a general disposition to lay too much stress upon a mechanical repetition of the name, natural order, etc., in the most condensed form possible and to neglect anything like an intelligent general knowledge of the drugs. In the majority of cases there was an obvious lack of systematic training.

Pharmaceutical Chemistry.—There has been a little improvement in the general standard in this subject, and some of the successful candidates have done work of a high order in both the practical and the theoretical parts of the examination. In the practical examination, although some improvement in the work of the better candidates was noted, the general standard of accuracy in the quantitative work done in the practical examination left much to be desired. . . . Many candidates could not weigh accurately on a sensitive balance, and betrayed unfamiliarity with the use of the rider. Titrations were sometimes performed in a slipshod manner and a lack of exactness in reading the end points of titrations was often noticeable. . . . The examination of pharmacopoeial substances for impurities still left room for improvement, even in the case of the best of the candidates. Too often the tests were applied in a mechanical way without any appreciation of the specially careful manipulation necessary in testing for small quantities of impurities. In the oral examinations some improvement was noted in the standard of attainment in organic chemistry, but the knowledge shown by many of the candidates consisted for the most part in the ability to describe processes of preparation and the simple properties of the substances detailed in the syllabus. . . . The standard reached in the chemistry of the Pharmacopoeia was still unsatisfactory. . . . The work of the candidates examined under the new conditions in October calls for special mention. In both the written and practical examinations the work done showed on the average a higher standard of proficiency than has hitherto been displayed.

Pharmacy.—Improvements in the methods of conducting the practical examination have been effected during the year, the chief being the use of printed papers in place of type-script or manuscript for the new system of examination. The written papers showed a greater knowledge than was common in the old oral examination; the fact that the percentage of passes did not vary greatly from the normal may be attributed to the still very large proportion of failures in practical work. . . . An improvement in the knowledge of pharmaceutical principles is recorded with gratification, but candidates showed no progress in respect to pharmaceutical Latin. . . . The weakness in arithmetic referred to in the report last year still continued. . . . Untidiness was still very noticeable in the practical work, benches being littered with used apparatus to such an extent that clean and methodical work was frequently impossible. There was an obvious lack of the application of common sense in the matter of dispensing accuracy. . . . Dispensing manipulation still left much to be desired, for example, orange and lemon peel being used for infusion in large pieces, and cloves insufficiently bruised. The sterilisation of hypodermic injections was not, in general, satisfactory.

Forensic Pharmacy.—During this year the oral examination has been conducted by separate examiners instead of by examiners who also took the same candidate in the pharmacognosy examination. There was some evidence that students are beginning to regard this subject with a proper idea of its importance to the practising pharmacist, yet many marks

were lost in the written examination through candidates reading carelessly or not realising the extent of the question. There were also many occasions on which the "custom of the trade" was confused with legal requirements. . . . In view of the late publication of "Forensic Pharmacy" the Board consider it would be unreasonable to impose the full increase in the syllabus until the July examination, 1930, and in the meantime papers are being graded accordingly.

In moving the adoption of the report, the PRESIDENT mentioned that these were the last examinations to be held under the old conditions.

RECIPROCITY REGISTRATION

Kenneth Ernest Robinson, 157 Sutherland Avenue, London, W.9, having presented evidence of having undergone an approved course of study, and having passed the Qualifying examination of the Pharmacy Board of New Zealand, and tendered the prescribed fee, was registered as a chemist and druggist.

David Owen Evans, 201 Albany Street, London, N.W., who had passed the Qualifying examination of the Pharmacy Board of New South Wales, was similarly registered.

BRAND-NAME PREPARATIONS

Mr. J. HUMPHREY asked the following question: Is the president aware of the way in which one of the old-established privileges of chemists and druggists is being imperilled by the conversion of stamped proprietary medicines into brand-name preparations in connection with which advantage is taken of the exemption in favour of "known, admitted and approved" remedies?

The PRESIDENT said he was aware of the matter, which, however, would be referred for discussion by the Council before he himself made any statement.

CORRESPONDENCE

New Year greetings were received from the President and Council of the Pharmaceutical Society of New South Wales.

A letter was read from Mr. C. E. Corfield accepting the editorship of the British Pharmaceutical Codex.

A letter was read from the Preston and District Pharmacists' Association conveying the following resolution:—"That the Council of the Pharmaceutical Society of Great Britain be asked to adopt a more militant policy in all matters relating to pharmacy, and for the protection of the legitimate interests of the members of the Society."

The Council considered a suggestion that representation should be made to the Metropolitan Boroughs upon the desirability of employing pharmacists for the dispensing done at maternity and child welfare centres and tuberculosis dispensaries. The secretary was instructed to obtain detailed information.

The Council gave further consideration to a request from the Standards Department of the Board of Trade asking for suggestions for a limited number of one-ounce and two-ounce measures of different graduations, which would cover the ordinary needs of the dispensing counter. The Council approved a number of different types of measures.

EDUCATION COMMITTEE

The report submitted by the Education Committee showed that several schools had been approved for the teaching of certain subjects. The report was adopted.

Mr. ANTCLIFFE asked in connection with the approval of the school at Scunthorpe whether it would not be possible to arrange botany classes there.

Mr. PECK agreed that the question of botany was always a difficult one.

Mr. HINES said he visited the school a few days ago. It was a new secondary school and was not yet finished.

Mr. ROWSELL mentioned that he had visited the Merchant Venturers' College at Bristol and was much impressed by the arrangements he found there. Mr. Williams, late of Bath, was now in charge.

BENEVOLENT FUND COMMITTEE

The report of this Committee showed that nine applications had been considered, and grants made ranged from £10 to £50. The statement for the last quarter indicated that £473 had been disbursed, the total num-

ber of grants being nineteen. The receipts during the same period were £1,107 9s. 8d. The following special contributions were announced:—North Staffordshire Branch, £28 15s. 5d.; Rhyl and District Branch, £24 6s.; Edinburgh District Chemists' Trade Association, £15; Wolverhampton and District Chemists' Association, £8 12s.; Mr. and Mrs. Freke, £7 7s.; Surrey Association of Pharmacists, £7 0s. 6d.; H. R. Matthews, £5 5s.; A. A. Freeman, £5 5s.; H. J. Kluge, £5 5s.; London Chemists' Golfing Society, £3 3s.; J. E. Monaghan, £2 2s.; Bradley & Bourdas, £1 0s. 9d.; F. J. Watson, 17s. 1d.; H. E. Herington, 15s. Orphan Fund.—Retail Pharmacists' Union (Devon Branch), £5 5s.

Mr. KEALL regretted that while there had been an increase over last year in the number of subscriptions to the Society there was a decrease in the subscriptions to the fund. He was glad to report that Mrs. Freke had again visited the orphans, and they were grateful to her for her continued interest.

Mrs. FREKE said there were thirteen chemists' orphans at Watford, and ten of them were supported by the Society. She had seen them all and found them very happy. She felt that the whole atmosphere of the institution in which they lived was very nice for them. To each of the children she had given a present on behalf of the Council. The report was adopted.

(To be continued)

North British Executive Meeting

A MEETING of the executive of the North British Branch was held at 36 York Place, Edinburgh, on January 30, Mr. Charles Simpson in the chair.

The CHAIRMAN said that since their last meeting Mr. Forbes, of Perth, who was present at the meeting, had suddenly passed away. Mr. Forbes became a member of the Executive in 1915, and for two years occupied the position of vice-chairman. Mr. Forbes took a keen interest in pharmaceutical affairs, particularly in regard to education. He had also filled a prominent place in connection with National Health Insurance affairs, being elected a member of the first Pharmaceutical Standing Committee. He was also chairman of the Perth City Pharmaceutical Committee and chairman of the Perth County Pharmaceutical Committee. His death was a great loss to pharmacy. They would wish to record in their minutes an appreciation of his work and of their sympathy with his widow and son. Letters were reported from Mrs. William Duncan and Mrs. J. J. Forbes, acknowledging the sympathy of the Executive.

It was unanimously agreed to co-opt Mr. John Carmichael, Leslie, as a member of the Executive in room of the late Mr. Forbes.

Branch Meetings

Bradford.—At a meeting of the Bradford and District Branch, held on January 9, Mr. G. Penty in the chair, Mr. W. Deacon, member of the Institute of Radiology and of the Society of Radiographers, gave a lecture on *X-rays: Their Mystery and Use*. Heartly thanks were awarded to the lecturer.

N.E. Lancashire.—The North-East Lancashire Branch of the Pharmaceutical Society met on January 28, Mr. Arthur Dobson (chairman) presiding. The chairman referred to the bereavement Mr. S. H. Sidebottom, of Accrington, had sustained by the death of his wife, and a resolution of sympathy was passed. Mr. Walter Deacon spoke on *X-rays: Their Mystery and Use*. Special interest was taken in the speaker's description, illustrated by lantern slides, of the use of the rays in hospitals. A number of questions followed.

Portsmouth.—Mr. W. L. Agarton presided over a well-attended meeting of the Portsmouth and District Branch held at the Southsea Club on January 22. An address was given by Mrs. Jean K. Irvine, M.B.E., on *The Part the Chemist Plays in National Health Insurance* (see p. 154). A vote of thanks to Mrs. Irvine was proposed by Mr. C. H. Baker (Cosham) and seconded by Mr. H. C. Sawyer, clerk to the Portsmouth Insurance Committee.

Examination Results

LONDON

The following are the results of the examinations held in London during January:—

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for whole examination ..	6	1	3	2	—	—	—	—	—
Entered for C. & D., and referred subject in Prelim. Sc. ..	3	—	—	1	2	—	1	1	—
Entered for Prelim. Sc. only	184	7	104	39	34	—	—	—	—
Referred subject in Prelim. Sc. only ..	136	3	—	53	80	—	—	—	—
Entered for C. & D. only ..	177	—	—	—	—	13	71	54	39
Referred subject in C. & D. ..	111	—	—	—	—	—	—	26	85
	617	11	107	95	116	13	72	81	124

Referred in one subject:—Botany, 63; chemistry, 22; physics, 10; pharmacognosy, 18; pharmacy, 43; pharmaceutical chemistry, 13; forensic pharmacy, 7; total, 176.

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following, having satisfied the examiners in this examination, have been registered as chemists and druggists:—

Amess, J., Northampton
Anderson, Mary J., Swansea
Anstey, C. H., Forest Gate
Anstis, Rose E., Cardiff
Ash, H., Manchester
Ball, H. J., Newthorpe
Banton, R. E., Evesham
Berry, W. J., Litherland
Bingham, W. M., Bourne-
mouth
Borcovitz, H. L., Johan-
nesburg
Boustead, Alice A., Bow
Bown, W. E., Southsea
Bromwich, J., Irlam
Brunyee, N. L., Crowle
Burden, H. T., East South-
sea
Bury, I., Accrington
Buswell, A. W., Leicester
Chamberlain, T. J., Lin-
coln
Cheyne, J. F., Lancaster
Cocks, E. C., Chingford
Cohen, I., Canonbury
Coleby, G. A., Atherstone
Cook, J. L., Burnley
Copson, H. L., Leicester
Coward, H. B., Blackpool
Cowles, G. H., Bristol
Cox, L. C., Edgware
Coxon, C. H., Burslem
Crecraft, R. S., West
Bridgford
Davies, A. B., Cardiff
Dean, C. A., Doncaster
Edwards, J. G., Penmaen-
mawr
Edwards, P. Y., Berrow
Evaus, Edna H., Kingston
Evans, J. G., Swansea
Evans, T. R., Swansea
Flanders, G. W., Streat-
ham
Foster, H. W. M., Cardiff
Frizzell, R. E., Upminster

Garrett, S. J. E., East-
bourne
Gibson, W. E., Winchester
Gilman, Constance, Man-
chester
Green, F. C., Penzance
Green, H., Plumstead
Green, W. C., Oldham
Greenfield, J. F., Boston
Griffin, R. E., Easton
Gunn, R., Wick
Halpeuny, M. J., West-
minster
Hamer, S. J., Peckham
Hancock, C. E. V.,
Heanor
Herbert, J. F., Amman-
ford
Hill, C. E., Chippenham
Hinchliffe, H., Rochdale
Hodges, W. J. C., Shrews-
bury
Hopkins, H. G., Llanely
Howell, S. G., Penzance
Howells, S. H., Rhyl
Hughes, Gladys J., Rubery
Hughes, R. T., Tedding-
ton
Hes, G. H., Swindon
Izzard, F., Bulwell
Jennings, Connie R., Ilford
John, W. G., Swansea
Jones, J. R., Carmarthen
Jones, T. R., Treherbert
Kay, Lilian A., Leicester
Kidd, N., Middlesbrough
Kirkman, W., Bolton
Lawson, Winifred H.,
Ambleside
Leaper, N. H., Southamp-
ton
McLellan, W., Stockport
Marks, L. A. H., Goole
Matthewman, H., Hud-
dersfield
Mercer, S. R., Wavertree
Midgley, M. E., Bramhope

Morse, D. S., Malmesbury
Moss, D. C. N., Stamford
Hill
Moss, Edith M., Colches-
ter
Owens, D. H., Swansea
Palmer, J. H., Portsmouth
Parry, E. R., Barry
Perredes, P. L., Lowestoft
Platt, J. H., Manchester
Pote, F. W., Folkestone
Prothero, H., Treforest
Rees, A. J., Porthcawl
Restall, A. T., Pontypridd
Ringer, G. K., Taplow
Roach, Margaret G. L.,
Bridgnorth
Roberts, C. H., Cowbridge
Roberts, F., Stoke-on-
Trent
Roberts, H. C., Southsea
Roberts, J. B., Rhyl
Rosthorn, J., Accrington
Rowland, Winifred A.,
Crickhowell
Scott, W. J., Mansfield
Seed, J. L., York
Smith, M., Harborne
Spafford, N. M., Birming-
ham
Stanworth, F. L., Burnley

Thomas, R., Aberdare
Thurman, E. A., Staple-
ford
Tompkinson, F. W., Pen-
ton
Tovey, Muriel W., Swan-
sea
Towle, F. W., Eastwood
Trafford, F. J., Welshpool
Tremlett, R. G., Southsea
Turnock, B. J. W., Wed-
nesbury
Unsworth, Enid M., St.
Helens
Vaughan, D. E., Abergeley
Ward, J., Manchester
Warren, R. H., Fishponds
Waterhouse, D. H., Brad-
ford
Webber, R. W., Hove
West, S. J., Newbury
Whitaker, N., Birkenshaw
Whitwam, E., Golcar
Wickenden, R. E.,
Brighton
Williams, D. E., Peckham
Wilson, H. E. D., South-
ampton
Wood, Muriel J., Rayleigh
Wood, R. S., Nottingham
Wykes, W. J., Dartford

EDINBURGH

The following are the results of the examinations held in Edinburgh during January:—

	No.	PRELIMINARY SCIENTIFIC				CHEMIST AND DRUGGIST QUALIFYING			
		Absent	Failed	Referred	Passed	Absent	Failed	Referred	Passed
Entered for whole exami- nation ..	1	—	1	—	—	—	—	—	—
Entered for C. & D., and referred sub- ject in Pre- lim. Sc. ..	1	—	—	—	1	—	1	—	—
Entered for Pre- lim. Sc. only	63	1	26	7	29	—	—	—	—
Referred subject in Prelim. Sc. only ..	39	1	—	5	33	—	—	—	—
Entered for C. & D. only ..	70	—	—	—	—	8	23	17	22
Referred sub- ject in C. & D. ..	55	—	—	—	—	1	—	11	43
	229	2	27	12	63	9	24	28	65

Referred in one subject:—Botany, 1; chemistry, 7; physics, 4; pharmacy, 24; pharmaceutical chemistry, 4; total, 40.

CHEMIST AND DRUGGIST QUALIFYING EXAMINATION

The following, having satisfied the examiners in this examination, have been registered as chemists and druggists:—

Adamson, G. P., Gates-
head
Allison, Sarah M., Keswick
Anderson, Jean M., Glas-
gow
Bett, J., Anstruther
Bone, Annie M., Carden-
don
Bourne, E. C., Liverpool
Briggs, A., Maryport
Burgess, J., Stirling
Chernin, C., Johannesburg
Cockerill, H. R., Burnley
Coghill, Agnes M., Wick
Crichton, J. M., Dundee
Crombie, R. W., Dunferm-
line

Crosbie, R. W. C., Perth
Darroch, J. A., Glasgow
Devis, Valerie, Preston
Elston, M. W., Meols
Ferguson, J., Edinburgh
Fethney, J. R., Glasgow
Gilliland, J., Chester-le-
Street
Gray, B., Galashiels
Gregory, C., Riding Mill-
on-Tyne
Hay, W. L., Sunderland
Hindle, T., Oswaldtwistle
Hoyle, E. F., Glasgow
Jamieson, R. M., Mont-
rose
Jones, H. R., Conway

Jones, T. L., Birkenhead
Kennedy, W. P., Glasgow
King, W., Durham City
Kitchin, G. A. S., Glasgow
Langskail, J. D. O.,
Kirkwall
Lawrie, Mary T., Prest-
wick

McClunie, D., Glasgow
McLennan, K., Forres
McWhirter, E., Stevenston
Mathieson, W. C., Rosslyn
lee

Menzies, J., Glasgow
Michie, A. G., London
Moffat, D., Renfrew
Mowat, D. G., Glasgow
Muir, H., Stevenston

Otley, R. J. S., Filey
Purdie, J. J., Dumfries
Reid, T., Bathgate
Robinson, P. B., Manches-
ter

Rushton, Marion J., Walla-
sey
Salloway, H., Bacup
Scott, W. G., Penrith
Sharaf, A. H., Egypt
Shearer, P. C., Elgin
Smith, D. M., Perth
Stewart, Betsy C., Mont-
rose

Stocks, J. B., Bradford
Strudwick, J. S. A., Fal-
kirk

Thompson, J. R., Shotton
Tocher, M. L., Coldstream
Ure, J. M., Neilston
Wallace, A. G., Wick

West, C. S., Cupar
Whitaker, C., Cleethorpes
Whiteford, R., Lochwin-
noch

Willoughby, G., Kirkcaldy
Wood, G. A. S., Lennox-
town

Yacomeni, W. J., Crieff

Evening Meeting in Edinburgh

The third evening meeting of the session was held at 36 York Place, Edinburgh, on January 24, Mr. Charles Simpson (chairman of the Executive of the North British Branch) presiding. The first communication was on:—

The Stabilisation and Fermentation of Belladonna Leaves

By J. P. TODD, PH.C.

[ABSTRACT]

It is widely recognised that many of the vital functions in plant and animal cells are only possible through the intervention of enzymes. During the drying of plant tissues many changes in properties take place, and many of these changes are to be ascribed to the action of enzymes. In addition to the well-defined changes in colour, odour and taste, it is reasonable to assume that changes in the constitution of the active principles may also take place. Such changes have been shown to bring about the loss of glucosides in many drugs containing these bodies. Less interest has been shown in the case of drugs in which the active principles are alkaloidal in nature. After summarising the work of other investigators the author explains that the present research was undertaken with the object of determining whether any variation takes place in the alkaloidal content of belladonna either by (a) destroying the enzymes, or (b) allowing the continued action of the enzymes under the most favourable conditions.

The freshly gathered leaves of *Atropa belladonna* were used in the experimental work. In every case the experiments were arranged so that they might be strictly comparative. The fresh leaves were subjected to the vapour of 96-per-cent. alcohol under various pressures. The apparatus consisted of an autoclave adapted to electricity. The autoclave communicated with the stabilising vessel by means of a flexible copper tube, which was heavily heat-insulated by means of asbestos rope to prevent condensation of the alcohol in its passage to the stabilising vessel. The stabilising chamber was a heavy cast-iron vessel heated by means of a separate Nichrome wire, winding, and heavily insulated. The temperature in the stabiliser was indicated by means of a Cambridge dial type thermometer, and the pressure was read off on a pressure gauge. A variable resistance in series with the winding of the stabiliser allowed control of the temperature over a wide range. Condensation of the alcohol released from the stabiliser was brought about by means of a cock in the bottom of the stabiliser which opened into a heavy exhaust flask the side arm of which was connected to a condenser.

Process of Stabilisation

To stabilise a batch of leaves the autoclave was heated until alcohol vapour issued freely from the escape valve, communicating with the outer air. Meanwhile

the stabiliser had been heated to a temperature approximating to that of the autoclave. The leaves were then placed loosely in a wire basket which fitted the stabiliser, but remained clear of the sides and bottom. The cover was replaced and the alcohol vapour allowed to enter at the desired pressure. At the end of the allotted time the communicating valve was closed and the alcohol vapour blown off and condensed. The leaves were then removed and dried in the drying chamber. The chief difficulty in this method is that condensation of liquid always takes place, and although this was reduced in amount as more experience was gained in working the apparatus, the difficulty was never entirely obviated. The condensate was mainly aqueous, but contained a variable amount of alcohol. Loss of alcohol tended to occur owing to the displacement of water vapour, but the method of trapping the condensate allowed the dissolved alkaloid to be recovered. Assays of the alkaloid in the condensate gave an average loss in this way in a trial experiment of 0.03 gm. of alkaloid from 100 gm. of dry leaf. In the subsequent stabilisations the condensate was filtered and after evaporation returned to the powdered leaves. By maintaining the stabiliser at a higher temperature than the autoclave the condensation was very much reduced. This involved false values for the temperature to which the leaves had been subjected, and was therefore considered inadvisable. In addition, the initial high temperature had a tendency to cook the leaves since some time necessarily elapsed between the placing of the leaves in the stabiliser and the entrance of the alcohol vapour, while the lid was being clamped down.

It was considered advisable to test the efficiency of the apparatus. Tests were therefore carried out on fresh material, using a pressure of one-half of an atmosphere above normal. No reaction was obtained with the following reagents in aqueous solutions buffered to a pH of 7, guaiacol, *o*-phenylenediamine and freshly-made solution of guaiacum resin in 90-per-cent. alcohol. The tests for peroxidase were carried out by placing a drop of the buffered indicator on a piece of filter paper and then allowing a little of the powdered leaf to rest on the moist spot for a few minutes. A drop of solution of hydrogen peroxide was next added. The leaves, after stabilisation, were deep green, much deeper than the normal leaf in the fresh state. On drying, the deep green colour was retained, and the leaves were harsh, brittle, and rather unsightly. They dried very rapidly in a current of warm air, and in each case were dry several hours sooner than the control batch of leaves. The alcohol vapour seemed to have displaced the water or so affected the cellular tissue that the water escaped more easily.

Microscopical Changes

Microscopically the stabilised leaf was found to have suffered structural disarrangement. This applied particularly in the case of the leaves which had undergone treatment at a pressure of one and a half atmosphere above normal. The characteristic solanaceous type of stoma and the striations of the cuticle were unrecognisable. As might be expected, the calcium oxalate cells had suffered little change and were readily seen, particularly after removal of the green colour which obscured the detail more than in the normally dried leaf. With increased pressures of one-quarter to one-half of an atmosphere above normal the microscopic features were much less affected, and the stabilised leaf differed chiefly in the depth of its green colour.

To be accurate the assay must yield clean separations, and the time taken when dealing with solanaceous drugs must not be unduly prolonged or loss of the principles may result. As in every case a comparison was being made between drugs which differed only in their treatment at one stage, great attention was paid to the arrangement of the conditions so that these might be truly comparative rather than absolute, for the object aimed at was the discovery of alkaloid lost or gained. The ideal method of assay should yield the active principle of the drug in a pure condition requiring only simple weighing or titration against standard acid. In practice the ideal is seldom fully attained. In belladonna preparations the residue is really a mixture of

alkaloids and volatile bases in which atropine preponderates. In the absence of any method by which the atropine alone may be determined, the residue which is never quite pure, is titrated with a standard acid and calculated in terms of atropine, although, as has been shown by Larssonneau, other substances are present, e.g., *n*-methyl pyrrolidine, *n*-methyl pyrrolidine pyridine, and other basic bodies. The B.P. recognises the presence of these substances in the case of root preparations, and directs that the alkaloidal residue be heated on a water bath for thirty minutes in order to dissipate them, but no such provision is made in the case of the preparations of belladonna leaves. In this work the volatile bases were dissipated as is directed for the preparations of belladonna root. During the extraction of the volatile solvent by means of a dilute acid, in some processes, emulsification takes place depending on the nature of the substances contained in the volatile solvent and to a certain extent on the nature of the solvent itself. Chloroform is particularly liable to emulsify at this stage. The B.P. employs a mixture of chloroform and ether in the ratio of one to four. The addition of the chloroform increases the solvent power, but does not greatly increase the tendency to emulsify. The U.S.P. employs them in the ratio of one to three, and the tendency to emulsify is then more noticeable. During the assays of the stabilised leaves in this research neither of these solvents proved successful. The emulsions were different from those generally encountered in alkaloidal assays as the whole contents of the separator were involved. It should be mentioned that no difficulty (or only slight difficulty) was experienced when leaves dried in the ordinary way were used. The residue after removal of the chloroform in the final stage of the assay may be titrated with the standard acid, thus including the volatile bases, or these may be removed by heating on the water bath for thirty minutes.

Method of Assay

As the attempts to determine the alkaloidal content of the leaves after stabilisation, using the processes of the B.P. 1914, the U.S.P. X, and other well-known methods, proved fruitless, a trial of other processes was made with the object of evolving a method in which a preliminary purification from inert matter would remove the source of the emulsification. Ten gm. of the leaves in fine powder dried at 80° C. to constant weight in a hot water oven were triturated in a glass mortar with 3 c.c. of 10-per-cent. sulphuric acid. The acid was completely absorbed, and the crumbly powder thus obtained was transferred to a 250-c.c. flask with a long narrow neck, the mortar being swept out with a camelhair brush, and finally rinsed out with a portion of the ether. 100 c.c. of ether (s.g. 0.720) was added, and the flask securely stoppered and shaken for one hour in a shaking machine. The ethereal solution was then drained off through a small plug of cotton-wool in a funnel. The adhering ether was allowed to evaporate from the flask (which was shaken occasionally to break up the mass), twenty-four hours being given, and the plug of cotton-wool returned to the flask, any trace of residue being brushed in. The ether thus drained off contained no alkaloid, as was proved by evaporating a portion obtained from several lots of leaves, triturating with a few c.c. of acid and testing with Mayer's reagent. No precipitate was obtained. 100 c.c. of ether (s.g. 0.720) and 25 c.c. of chloroform were added, then 3 c.c. of a 10-per-cent. solution of ammonia, and the flask shaken rapidly in the shaking machine for thirty minutes. 80 c.c. of this solution was taken on every occasion representing 6.5 gm. of the leaves. The liquid was transferred to a separating funnel rinsing in with a few c.c. of ether. The ethereal solution was extracted once with 20 c.c. of *N*/1 sulphuric acid, and then thrice with 10 c.c., each lot as drawn off being filtered through a small filter. Theoretically only three extractions are required to extract practically all the alkaloid, but on practical grounds the fourth extraction is an advantage. The mixed acid solutions were made alkaline with solution of ammonia and extracted once with 20 c.c. of chloroform, then three times

with 10 c.c. The mixed chloroform solutions were then washed with 15 c.c. of water, and filtered into a wide-mouthed beaker flask. The filter was washed with 5 c.c. chloroform. The chloroform was finally allowed to evaporate in a current of warm air. The volatile bases were driven off by heating on the water bath for thirty minutes.

Results

The residue, in most cases crystalline, was dissolved in 10 c.c. of neutral alcohol, 25 c.c. of recently boiled distilled water added, two drops of methyl red solution, and 5 c.c. of *N*/10 sulphuric acid. Back titration was carried out by means of a freshly-made dilution with boiled distilled water of a carefully preserved strong solution of sodium hydroxide containing a little barium hydroxide. Conditions were so arranged that on each occasion three lots of treated material and three of the control were assayed. The leaves were divided into three or more portions, part being treated as previously described with the vapour of ethyl alcohol and the other dried and retained as a control. The drying was at first carried out by exposure to the air in a warm room till air dry, then drying in a hot water oven at 80° C., powdering and again drying to constant weight. The later batches (from lot 2) were first dried in a specially constructed drying chamber in which they could be subjected to a current of air at temperatures which could be varied as desired. The leaves were then powdered as before and finally dried to constant weight. The stabilised leaves were after the treatment dried in the air drier, powdered, and finally treated as the control for assay. The assays were carried out until three closely agreeing results were obtained. The treatment of the leaves at 1.5 atmospheres above normal proved so severe that only one batch of leaves was so treated. The temperature as indicated by the thermometer gradually rose during each treatment of the leaves. (The results are tabulated by the author.)

The figures obtained in the assay of the stabilised leaf would indicate a lower alkaloidal content.

Occasionally the variation in colour of commercial samples of belladonna leaves causes comment. This variation in the colour of the leaf can be brought about by inducing the enzymes to act, by preventing the loss of water and by the application of a suitable temperature. That colour is not alone altered can be inferred from the fact that the odour becomes different from that of the well-dried leaf and, as will be shown, other internal changes are brought about. In working with stabilised leaves, it was at first concluded that one of the effects of the high temperature and pressure was to cause some splitting of certain constituents of the leaf, with the formation of a substance which, passing into colloidal solution in the ether used in the extraction, was the cause of the emulsification which took place. This idea was abandoned when it was discovered that the tendency could be observed also in the well-dried leaf although in less amount, and that in a well-fermented leaf the tendency was practically absent. It must be assumed therefore that one of the effects of the enzymes is to alter the original colloidal condition of the leaf cell. Whether the characteristic changes brought about in the fermentation of tobacco and tea leaves are due to the action of micro-organisms, such as yeasts and bacteria, or to the action of the contained enzymes has been a matter for controversy. In the present experiments, leaves were set to ferment without special precautions against micro-organisms, as it was thought that the temperature induced as the result of the fermentation would induce a process of auto-sterilisation, as is the case in the ensilage of green fodder for cattle feeding. This was found not to be the case, and the first batches of leaves were attacked by moulds and also by bacteria. The effects of these on the tissues of the leaves in no way resembled the effects produced later, which, from appearance and colour, seemed to be true fermentations.

(A table of results and a summary of conclusions are given.) The work was carried out in the Pharmacy Research Laboratory of the Royal Technical College, Glasgow.

(To be continued.)

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students," *The Chemist and Druggist*, 42 Cannon Street, London, E.C.4.

Report on the January Analytical Exercise

THE powder distributed to students on January 7 contained two parts by weight of cupric hydroxycarbonate, one part of ammonium bichromate, and seven parts of anhydrous sodium sulphate. The calculated composition of such a mixture is:—

Cu	...	...	...	...	11.5
NH ₄	...	...	...	...	1.4
Na	...	...	...	...	22.7
CO ₂	...	...	...	...	5.4
Cr ₂ O ₇	...	...	...	...	8.6
SO ₄	...	...	...	...	47.3
OH	...	...	...	...	3.1
					100.0

A trace of a chloride was also present as impurity.

Samples of the powder were distributed to thirty-eight students and twenty reports of analyses were sent in for examination. The failures in the detection of the main constituents were: (a) Metallic radicals: Copper, 1; ammonium, 10; sodium, 3. (b) Acidic radicals: Carbonic, 6; chromic, 2; sulphuric, 2. In connection with chromium, six students reported it as chromate, but did not observe chromic hydroxide in the iron group, while one detected chromium but did not recognise it as chromate. The water evolved when the powder was heated in a dry tube consisted of hygroscopic moisture and of water produced by the decomposition of the hydroxycarbonate. It was liberated in small quantity only. Radicals erroneously reported as present included mercury, bismuth, aluminium, barium, magnesium and potassium, with the radicals of hydrobromic, nitric, phosphoric, arsenic and sulphurous acids.

In the general remarks upon the December exercise advice was given as to how to proceed in applying the flame test for potassium in the known presence of sodium in large proportion, and in the report upon the exercise of October last some observations were made on testing for the sulphuric acid radical. The present exercise was specially devised with a view to enabling students to deal with both of these matters in actual practice—not with altogether gratifying results. The presence of the chromic acid radical in the originally yellow hydrochloric acid solution of the powder appears to have had the effect of leading some students to presuppose the presence of potassium—this metallic radical being the one most commonly associated by pharmacy students with the chromic acid radical—and to report its presence without having submitted the matter to adequate practical examination. In the actual event exactly one-half of our correspondents erroneously included potassium amongst the radicals detected, some, no doubt, through omitting to observe the precautions we advised, while others may have permitted imagination, or what they considered probable, to play an undue part in affecting their reports. We cannot too strongly advise any students to whom the latter suggestion may possibly apply, to avoid all preconceived ideas in chemical analysis and to be guided only to conclusions that are founded upon definite experimental evidence.

In the case of the sulphuric acid radical, the proportion present was so large that the failure to detect it was something of an achievement on the part of the two students who reported its absence. To the latter we again recommend a perusal of the remarks on the October exercise.

It was not without some surprise that the failures to detect chromium in the iron group on the part of students who had already recognised the presence of the chromic acid radical were found to be so numerous, and that several students who actually observed precipitates of chromic hydroxide at the proper stage reported these as due to aluminium. Consideration of the relationship existing between chromates and chromic

salts and the behaviour of the former in the routine processes of the systematic analysis should have made this particular mistake impossible.

The ammonium radical was present in small proportion only, but nevertheless it was easily detected when moderate delicacy of treatment was observed, and it should not have been missed by so many students as actually failed to find it. Exactly similar remarks apply to the carbonic acid radical.

PRIZES

The First Prize for the best analysis has been awarded to:—

MARGARET W. NIVEN, 1 Stewart Terrace, Barnhill, Angus.

The Second Prize has been awarded to:—

H. SEYMOUR, Morgan Tower, Nethergate, Dundee.

First Prize.—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

(To be continued.)

Profit or Profession?

"PROFESSIONAL pharmacy may be all very well in its way," a chemist friend said recently, "but it's played out so far as profit goes. The display of drugs and appliances during the recent Pharmacy Week may have impressed the public who passed by, but it did not pull many profitable customers into the shop—and some of us depend on our windows to pay our rent." There is a sentence in the *C. & D. Trade Report* on January 11 (p. 51) which reflects the present position fairly accurately:—"It would seem that the present buying capacity of the country has diminished, and this may be partly due to a larger expenditure of income on what may be termed 'luxuries.'"

One cannot help being impressed by the lavish displays of good-class toilet necessities in the chemists' windows of districts which can best be described as "poor middle-class." In a squalid London neighbourhood recently there was to be seen in a pharmacy window two long plate-glass shelves filled with twenty or thirty really nice perfume sprays. It is to be assumed that a chemist would not display such goods if he had no hope of selling them.

In a wholesale house the writer met a colleague from a distant suburb. His business would be considered a working-class one, yet he had come to town to select for stock, among other things, three glass powder bowls of artistic design. He said that the patterns sent in response to his written orders did not please the somewhat fastidious taste of his customers, and therefore he was obliged to make a personal selection.

The subject of insurance dispensing cropped up recently in conversation with another suburban chemist. He said: "I do what comes along, but I don't encourage it. What's the use of bothering about dispensing nowadays? I can make 10s. profit in as many minutes by selling a jar of bath crystals to my best customers, and that's the stuff I'm out for. What can I get out of private dispensing—let alone the State work—to beat that? Then think of the restrictions and the worry attached to it! Give me the toilet and the photographic trade, and you can take all the dispensing you want."

A contributor who recently wrote in the *C. & D.* on the subject of settling in business expressed the view that the professional type of business was dying out under modern conditions. It does seem as if this were true to a certain extent, though it is difficult to say whether the change is brought about by an alteration in the needs of one's customers or a preference on the part of the chemist for a profitable trade rather than a professional status.—STERLING (21/1).

Associations' Winter Session

Birkenhead.—A meeting of the Birkenhead and Wirral Pharmacists' Association was held on January 22, the president (Mr. C. H. Wright) in the chair. Owing to unforeseen circumstances Mr. Mallinson, secretary of the Retail Pharmacists' Union, was unable to be present to address the meeting and sent as deputy Mr. Thomas Hardy (Maryport). Mr. Hardy, after a brief introduction from the president, discussed the topic of *Co-operation*. The chemist, he said, must be kept in mind by the public, and a scheme of co-operation by advertising was announced. Such schemes have been launched in other trades to the advantage of all concerned. Pharmacy Week was the first step in a co-operative movement, and this cost the Union so much that it was impossible to continue without adequate support from the individual chemist. If every member would consent to a deduction of 1 per cent. from his N.H.I. accounts this would yield £20,000 for such purposes. Mr. Hardy mentioned the thousands of pounds that had been saved the chemist by the C.D.A., the C.M.I.S., and the Sickness and Provident Society.

Birmingham.—A meeting of the Birmingham Pharmaceutical Association was held on January 15, when about 120 members were present. Mr. H. Berry (president) introduced Mr. W. Deacon, member of the Institute of Radiology, who gave an illustrated lecture entitled *X-Rays: Their Mystery and Use*. A series of slides showed the movement of the barium meal in the body. Questions were put by Messrs. Cox, Foden, Buckingham and others. Votes of thanks, proposed by the president, were accorded to the lecturer and (for the use of the lantern) to Southall Brothers & Barclay, Ltd.

Dublin.—The Irish Chemists' Golfing Society held their third annual meeting recently in Dublin. Mr. T. Campion (captain) presided in the unavoidable absence of Mr. F. J. Fitzpatrick (president). The secretary and the treasurer submitted their reports, and both were satisfactory. The meeting elected officers for the coming year as follows:—*President*, Mr. F. J. Fitzpatrick, P.C.; *Vice-President*, Mr. D. J. Nugent; *Captain*, Mr. T. Toher (Sligo); *Secretary*, Mr. J. L. Ryan (Dublin); *Treasurer*, Mr. J. J. Roche (Dublin); *Committee*, Messrs. J. Gorry (Naas), A. W. Hughes (Dublin), J. S. Fyffe (Dublin), R. Bates (Dublin), T. Costello (Dublin), P. D. Larkin (Drogheda), A. F. Roche (Dublin), J. J. Fitzpatrick (Dublin), J. B. Stewart (Limerick), J. F. Costello (Galway), J. Blair (Cork), E. McSweeney (Cork), T. Tucker (Cork), J. Gubbins (Bray), P. Liston (Limerick), and Dr. M. L. Ryan (Dublin). The fixture list for 1930 was discussed, and it was decided to hold a three-day tournament at Lahinch Golf Course, co. Clare, on May 12, 13 and 14. On a motion proposed by Mr. Larkin, and seconded by Dr. M. L. Ryan, a vote of thanks to the Galway and Limerick chemists for their kind hospitality and good fellowship on the occasions of the society's visits to both places was passed. A vote of thanks, proposed by Mr. P. Liston, and seconded by Mr. T. Costello, was accorded to friends in the wholesale trade who presented prizes and cups in 1929.

London (N.).—The monthly meeting of the North London Pharmaceutical Association was held on January 21, the president (Mr. D. Anderson) in the chair. Arising out of the correspondence considerable discussion on the Proprietary Articles Trade Association and price cutting took place. Mr. R. Fouracre, pharmacist to the Westminster Hospital, gave an address on *Radium—Its Present-day Use in Hospitals*. Mr. Fouracre gave an interesting account of the methods of application in malignant cases, and emphasised the completeness of the team spirit among investigators. A discussion arose in which several took part, and a vote of thanks was accorded on the motion of Mr. Herbert Skinner.

Sheffield.—A meeting of the Junior Pharmacists' Association was held on January 31, Mr. L. Piper in the chair. Mr. John Austen, Ph.C., delivered an address entitled *The History of Pharmacy*. Mr. Austen gave a survey of facts in early medicine, touching on the Egyptians, Greeks and the Roman Empire. Mr. Austen also gave an outline of the evolution of the apothecary.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Middlesex.—At a meeting of the Middlesex Pharmaceutical Committee, held on January 22, the chair was taken by Mr. A. W. Hall, and there was the usual good attendance of members. The secretary (Mr. Hugo Wolff) was welcomed on his return after illness. It was reported that the National Insurance Formulary is now out of print and undergoing revision. A communication from the Retail Pharmacists' Union conveyed the information that the Minister was not prepared to ask Parliament for further funds. It was also intimated that there was likely to be no discounting for 1929, and that the present contracts would therefore be continued until December 31, 1932. The Middlesex arrangements for the testing of dispensing came up for discussion, in connection with a proposal that the national scheme should be adopted, and the secretary was authorised to take any necessary action in the matter. The supervisor's report included the following particulars:—

1929	No. of prescriptions	Ingredient value	Dispensing fees	Total value
		£ s. d.	£ s. d.	£ s. d.
October..	173,645	2,682 7 0	3,156 15 4	5,839 2 4
November	185,230	2,883 4 8	3,372 11 3	6,255 15 11

Articles disallowed during October and November number forty-two, including six brushes, and other articles such as a comedo remover, elastic knee-caps, finger-stalls, gastrostomy tube, nasal douche, inhaler, Thermogene and capsicum wool, Pond's Cream, litmus paper, Benedict's solution, hypodermic syringes and needles (not for insulin).

North Riding.—At a meeting of the North Riding of Yorkshire Insurance Committee, held recently, Dr. G. J. B. Candler-Hope, referring to the proposed National Formulary, said that in the North Riding they had a simple formulary which was quite effective. The North of England Pricing Bureau found that certain committees were using different formularies, and asked that all under their control should adopt the same. There had been introduced what was called a National Formulary. Their Panel Committee and various other committees were not satisfied that it was an improvement on their own. They considered it complicated, tending to lead to an increase in the cost of pricing, and therefore they decided to stick to their own formulary at present.

SCOTLAND

Ayrshire.—At a meeting of the Ayrshire Insurance Committee on January 18 the chairman referred to the test which had been made recently of drugs and appliances supplied in eighteen cases. In only three cases was there any discrepancy in the medicines supplied. In two of the three cases the difference was small. The convener of the Medical Benefit Subcommittee explained that the Committee insisted on persons obtaining rectified spirit for ear-drops, although suggestions were being made that industrial spirit might be used.

Edinburgh.—At a meeting of the Insurance Committee held recently, an abstract for the year 1929 was submitted, showing an expenditure for medical attendance and treatment, including medicines, of £91,754, and for other forms of benefit, etc., of £3,419. It was reported by the Medical Benefit Subcommittee that the Committee's scheme for the testing of drugs and appliances had been in operation for fifteen months, that seventy-six tests had been made, and that in only two cases had there been found any variation from what had been prescribed.

Stirling.—At a recent meeting of the Stirling Burgh Insurance Committee the clerk said that he had to take samples from various chemists during the year. Four samples of medicines and two of appliances were taken, and the report was excellent.

WESTERN AUSTRALIAN SANDALWOOD OIL

By ERNEST J. PARRY, B.Sc., F.I.C., F.C.S.

IN THE CHEMIST & DRUGGIST of January 18 (p. 65) a note by myself appeared on the above subject. This note consisted of an expressed hope that the character of the essential oils covered by the above name should be accurately recorded. On page 227 of "The Essential Oils," Finemore expresses the same hope in the words "its correct description is necessary to avoid confusion with other commercial varieties." In my note every material statement of fact is reproduced from quoted authorities. On page 114 of the *C. & D.* of January 25 an article by Dr. Percy May appears on the subject. This article purports to be a criticism of the note by myself above mentioned.

CRITICISMS DECLARED INACCURATE

I am in hearty agreement with Dr. May in one of his criticisms. He states that the form for the expression of the total alcohols "seems unintelligible to the present writer." My words as printed are "percentage of sesquiterpene alcohols of which almost — per cent. is santalol." I quite agree. Owing to the Editor having omitted to send me a proof, my bad writing caused the word "about" to be printed as "almost." With this exception, I have to say that the remainder of Dr. May's criticisms of my note are inaccurate or irrelevant. I do not refer to the windmills he has set up for himself to tilt at which are not my concern. Dr. May's article, to me, emphasises the text upon which I wrote my note, and after reading the two carefully I should not alter one word, but should rather underline most of it heavily. I must, however, reiterate the fact that it is necessary to have the character of an essential oil recorded correctly. Now it is quite common knowledge, recorded over and over again, that the oil examined some years ago contained only about 70 to 75 per cent. of alcohols. I quote the following from Venkatesaiya & Watson ("Journal of the Society of Chemical Industry," 1928, 322r): "It is an accepted fact that the West Australian oil now on the market has approximately the physical constants required by the British Pharmacopœia for East Indian oil owing to careful fractionation and blending with the oil from *Santalum lanceolatum*, which has a high negative rotation." I also quote the following as the optical rotation of West Australian oil of commerce in the advertisement of an important distiller in the issue of a trade journal dated December 1929, namely, "opt. rotation D -4° to -16° ." I believe it is generally admitted that by fractionation the oil is distinctly improved, but that is quite irrelevant to the question. I can fractionate most essential oils and obtain a resulting oil with characters quite different from that of the whole oil.

Dr. May must have been singularly unfortunate in his fourteen samples in not finding one which even remotely attained the higher optical rotation advertised by distillers. I, on the other hand, have found such samples, and in tins bearing a label with the constants of the contents given, including the high optical rotation. I think Dr. May will have to revise his opinion as to the important point involved in this matter, and realise that the characters of a fractionated oil, and of an oil mixed with the oil of another plant, are not, for scientific purposes, the characters of the whole essential oil of a single plant. Dr. May complains that I give, in my note, "a partial and one-sided summary of the statements made by some of the authors who have previously

written on the subject." This is not only untrue, but what is worse, it is ridiculous.

INVESTIGATIONS AT KEW

I quote the botanical work of Sprague and Summerhayes which was published in the "Kew Bulletin" (No. 5, 1927). There are no two sides of this work: it is either yea or nay. To suggest that I have given a one-sided summary of this work is mere verbiage, and it would be interesting to see Dr. May justify his charge in words which could stand the test of careful examination. It is interesting to note that this examination at Kew was made "in response to an inquiry from the Forestry Department, Western Australia, as to the generic status of *Fusanus* R.Br. (*Santalaceae*), and particularly as to whether it should be included in *Santalum* L."

And now, after scientists of such high reputation as these botanists have made, "an investigation into the taxonomy and nomenclature of these and allied genera," and published their results in six long pages of an official document; and at the request of the Forestry Department of Western Australia; Dr. May states, "these authors appear to have made no extensive examination of the material, and to have thrown no new light upon the subject." This appears to be a very serious accusation and a most unjustifiable statement. We shall look forward to Messrs. Sprague and Summerhayes' remarks on it in due course.

PENFOLD BELITTLED

I now turn to the other author I quoted, namely, Penfold, who, I fancy, will remain indifferent as to whether Dr. May belittles his paper or not. I again challenge Dr. May to produce any part of Penfold's paper which is relevant to the subject on which I wrote that can justify his intemperate accusation that I have given a one-sided summary of his conclusions, except that I might, had I wished, have quoted more in favour of the point I was making. For example, Penfold says in terms, "A laboratory alcohol has been isolated with a specific rotation of -70.4° , being the principal component of a sandalwood oil obtained from the species *Santalum lanceolatum*, which is used by the West Australian manufacturers to bring the optical rotation of their oils up to the requirements demanded by the B.P. for the East Indian oil." A little more care and accuracy are necessary when criticising other people's writings than Dr. May has shown in the present case.

DERRIS.—"The extended use of tuba root in the preparation of proprietary insecticides has resulted in larger areas being devoted to the cultivation of this plant in the Federated and Unfederated Malay States. According to the annual report of the Agricultural Department for 1928 the area now planted in Johore is about 2,000 acres, though only 700 acres are devoted to the crop in the Federated Malay States. From experiments carried out at the Serdang Experiment Station, where several species of *Derris* are cultivated, it has been shown that there is a wide degree of variation in the toxic content of the roots of the different species and varieties. The roots of *Derris malaccensis*, Prain, commonly known as "erect tuba," are regarded as being more highly toxic than those of *Derris elliptica*, Benth. ("tuba puteh"). An interesting fact is that the fine lateral rootlets have been shown to possess a higher toxic content than the large roots in all cases. . . . F. N. H., in the Kew "Bulletin of Miscellaneous Information," No. 1, 1930.

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, February 6

THERE does not seem to be much relief from the continued trade depression, which, if anything, has been intensified by the obscure Government policy relating to the McKenna and the safeguarding duties, apart from the fear of additional taxation in the coming Budget. Given a return to cheap money or the establishment of a 4 per cent. Bank Rate within the next few months, this would help trade and remedy unemployment to some extent. There has been no apparent growth of activity in Mincing Lane produce, although a better trade was noted in sugar, with a stronger tone, due to the firmer advices from America and in regard to Cuba. Rubber was comparatively quiet but fairly steady, while only a small increase was recorded in the stocks. Shellac ruled dull and lower. Among crude drugs there is little of interest. Cardamoms at auction were distinctly higher. Cascara sagrada for shipment is again dearer. Kordofan acacia is quiet, although shippers are asking higher prices. Ipecacuanha and menthol are weaker. Vanilla at auction met a poor demand at lower prices. In essential oils, the tendency generally is towards easier rates, about the only exception being cedarwood, which is firmer. About the only change in aromatic seeds is a decline in coriander on the spot. Business in pharmaceutical chemicals has been quiet in all directions. Last week's lower prices for methyl salicylate are maintained, with imported make competitive. Citric acid is easier, and in tartaric acid slightly more interest has been shown. Barbitone is somewhat disturbed by cheap offers. In the industrial chemicals market there is little to comment on, prices being steady in most directions. Formaldehyde is fairly active; isopropyl alcohol has been in better call, and oxalic acid meets with a good demand at firm rates. Zinc oxide continues unsteady. In the fixed oils section, quiet markets are reported, and the few changes indicate slight depreciations in values. These include turpentine, rape, cotton, soya and wood oils. Castor shows a slight recovery, while linseed is easier on the spot, but firmer forward. In the metal group, Chinese regulus is easier on spot, but firmer forward; cadmium is in active demand and firm. Mercury, in the open market, is the turn easier, and platinum has further weakened.

Higher	Firmer	Easier	Lower
Cardamoms (auction)	Castor oil (Eng.)	Balsam (Canada)	Bois de Rose oil (Brazil)
Cascara sagrada (c.i.f.)	Cedarwood oil	Citric acid	Cassia oil
Gum acacia (Kordofan)	Linseed oil (forward)	Cotton oils	Coriander seed (spot)
	Orange oil (Cal.)	Lemon oil	Farina (Dutch)
		Linseed oil (spot)	Geranium oil
		Menthol	Ipecacuanha (Bourbon)
		Peppermint oil (Jp.)	Platinum
		Pimento	Shellac
		Rape oil	Vanilla (auction)
		Resins	Vetiver oil (Bourbon)
		Sassafras oil	Wax, veg. (Jp.)
		Soya oil	Wood oil

Crude Drugs

AGAR-AGAR.—Sales of No. 1 Kobe have been made at 3s. 6d. and No. 2 at 3s. 4d. c.i.f.; Yokohama No. 1 is 3s. 3d. c.i.f.

ANTIMONY.—Chinese regulus fluctuated but was easier latterly at £31 5s. to £31 10s. per ton on the spot. C.i.f. terms for shipment, however, were more firmly held, ranging upward of £27 10s., with only little interest shown. English refined high-grade is £50 to £50 10s., and ordinary brands range down to £42 10s. Chinese crude is nominally £26. Chinese white oxide is about £34 10s.

BALSAMS.—Good hard bright *Tolu* is quoted on the spot at 4s. per lb. *Canada* is easier at 4s. 9d. to 5s. per lb. spot. *Peru* is at from 6s. 3d. to 6s. 6d. per lb. spot for genuine B.P.

BELLADONNA ROOT is in more demand and is quoted at from 57s. 6d. to 60s. per cwt. spot, according to test.

BISMUTH is unchanged, the official price remaining at 7s. 6d. per lb with "outside" offers at substantially less. The annual report of the Consolidated Mining and Smelting Co. is expected to show that over \$300,000 was obtained last year for the sale of bismuth metal, which had not appeared in previous statements.

CADMIUM.—There has been a continued good active demand on the spot and prices are well held at 3s. 11d. to 4s. per lb. Current supplies are said to be well absorbed. Advices from Montreal state that the cadmium output of the Consolidated Mining and Smelting Company of Canada for last year was 763,000 lb., which, at \$1 per lb., added \$768,000 to the company's revenue, which compares with \$300,000 for 1923, when marketing of the new metal in quantity was initiated.

CARDAMOMS.—At auction on January 30, 68 packages offered and 48 sold with a good demand, Ceylon-Mysore being 2d. to 3d. and Mangalore 3d. to 6d. dearer, the following prices being paid: Ceylon-Mysore, fine bold smooth pale, 7s. 7d.; bold medium ditto, 5s. 1d. to 5s. 3d.; small yellowish to slightly brownish 3s. 9d.; bold brownish splits, 5s. 4d.; bold medium splits, 4s. 6d. to 4s. 7d.; small ditto, 3s. 3d. to 3s. 4d. Mangalore from Calicut, good bold round brownish, 5s. 6d. to 5s. 7d.; long ditto, 5s. 1d. to 5s. 2d.; medium round, 4s. 6d. to 4s. 7d.; medium long, 4s. 1d.; reds and splits, 3s. 3d. per lb.

CASCARA SAGRADA is dearer at 66s. per cwt. c.i.f. For old bark (1924 peel) 75s. spot is asked by some holders. The cheaper lots at 72s. 6d. of this peel have disappeared. Some of this bark in 1925 was bought at from just below 100s. to 140s. Two-year-old is quoted at 67s. 6d. London disclosed stocks at the end of January were 130 tons, against 294 tons in January 1929.

CHAMOMILES are steady at 230s. per cwt. for good white first pickings, down to 260s.

CIVET.—Scarce and difficult to obtain and is quoted at 17s. per oz. for genuine. There are some cheaper parcels on the market at from 13s. to 14s. per oz., but good quality is difficult to get.

CLOVES.—Zanzibar are quiet, with spot sellers at 9½d. per lb. and January-March shipment 8½d. at c.i.f.

The landings in London during the week ending February 1 amounted to 585 and the deliveries to 347, leaving a stock of 1,474, against 1,876 in 1929 and 11,731 bales in 1928. The landings in London (January 1 to February 1) amount to 1,415, against 417 in 1929, and the deliveries 739, against 1,040 in 1929.

ERGOT.—Russian is steady at from 1s to 1s. 1d. per lb. and Spanish is 1s. 10d. on the spot.

GLYCERIN.—Although Continental can still be sold at the former price of £51 per ton naked for chemically pure, there is a firmer undertone in that direction.

GUM ACACIA.—Although prices of Kordofan are higher, there is not much business passing, as the market is difficult to operate in. Shippers have advanced their prices to 95s. c.i.f. for cleaned, 90s. c.i.f. for natural, and 40s. c.i.f. for Talha, and while a few speculators are inclined to discount the market, buyers maintain their reserved attitude.

IPECACUANHA is lower, Matto Grosso offering at from 14s. 3d. to 14s. 6d. per lb. To come forward from the Continent 13s. 6d. per lb. c.i.f. is quoted for Matto Grosso.

MAGNESIUM.—A regular business continues to be done by British makers and prices for small ingots or sticks vary from 3s. 3d. to 3s. 9d. per lb., according to specification.

MENTHOL is easier, and with a firm order in hand it is probable that business could be done at 14s. 6d. per lb. on the spot for Kobayashi-Suzuki; forward shipment is quoted at 14s. c.i.f., without business.

MERCURY.—The demand has continued dull with an easier undertone in the "open" market, where offers have been made at about £23 per bottle, less the usual discount, for spot parcels. Official terms for controlled supplies stand at £22 5s. net up to ten bottles and £22 2s. 6d. for upwards of ten bottles, while terms for forward shipment for 25 bottles upwards remain at £21 15s. f.o.b. net.

PEPPER has shown slight fluctuations, fair black Singapore closing at 1s. per lb. on the spot; January-March shipment is 1s. c.i.f.; Lampong is 1s. spot. To arrive, the sales include January-March at from 1s. 0½d. to 1s. 0¼d. to 1s., and March-May at 1s. 0½d. to 1s. 0¼d. c.i.f. Tellicherry is 1s. 1d. spot and February-April shipment 119s. c.i.f. Alleppy is 1s. 0½d. spot and February-April shipment 117s. c.i.f. White Muntok is firm at 1s. 4½d. spot. To arrive, the market is firmer; the sales include January-March shipment at 1s. 4½d. to 1s. 3¾d. to 1s. 4¼d. c.i.f., March-May at 1s. 5d. to 1s. 4d. to 1s. 4½d. and May-July at 1s. 4d. c.i.f.

PIMENTO is easier at 9½d. per lb. on the spot, and for January-February shipment 80s. per cwt. c.i.f. is quoted, being cheaper.

PLATINUM.—Under a slow demand the market has weakened further and the official quotation has been reduced to £12 5s. per oz., while current quotations in the open market are £12 5s. to £12. Scrap or crude metal is about £10 10s. per oz. Iridium has fallen further, being at about £37.

RUBBER is without material alteration, and business remains exceedingly quiet. In spite of the lack of trade, the first-hand importers show little inclination to meet the market, and whilst the tone generally seems weak, any persistent buying would speedily stiffen values. We have no further news to report in regard to the recent "conversations" between the British and Dutch importers. Arrivals last week totalled 2,154 tons, whilst deliveries were 1,678 tons, showing a further increase of 476 tons in the stocks. The London stock now stands at 60,460 tons, against 25,389 at the corresponding period last year. The Liverpool stock now stands at 19,898 tons. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and February, 7½d.; March, 7½d.; April-June, 7½d.; July-September, 8½d.; October-December, 8½d. per lb.

SEEDS.—**ANISE.**—Spanish is 65s. and Russian 31s. 6d. per cwt. on the spot. **CANARY.**—Old crop Mazagan is 28s. 6d. and new crop is 27s. 6d. on the spot. Mazagan for shipment is quoted at 27s. c.i.f. Morocco (f.a.q. 4 per cent.) is 26s. 6d. spot, and for February-March shipment 25s. 6d. c.i.f. is wanted. **CUMIN.**—Malta is 70s. spot and for shipment 65s. c.i.f. Morocco on spot remains at 62s. 6d. spot, and for February-March shipment the price is firm at 58s. c.i.f. **FENUGREEK.**—Morocco is 19s. spot and 16s. 6d. c.i.f. for prompt shipment. **CORIANDE** for shipment is now quoted at 7s. 9d. to 8s. per cwt. c.i.f. The spot price is 7s., with business passing. **MUSTARD.**—English is 27s. 6d. to 32s. per cwt., according to quality. **CARAWAY.**—Dutch on the spot is 37s. 6d., and for prompt shipment 36s. per cwt. c.i.f. is quoted.

SENEGA has been neglected of late owing to the extremely mild weather. Spot price is at from 3s. 10d. to 3s. 11d. per lb. and at 3s. 9d. c.i.f.

SENNA PODS.—We understand that over 50 per cent. of the shipments of Alexandrian in London from the new crop have arrived black and useless, owing to the heavy frosts experienced in the Sudan; letter and telegraphic reports indicate a very poor crop of Alexandrian senna pods, while the stocks here are very small, particularly good hand-picked grade.

SHELLAC is quiet and lower, usual standard TN orange quality closing at 142s. 6d. per cwt. on the spot; fine orange is 170s. to 270s., pure button 195s., and AC cakey 175s. To arrive, sales of December-January, January-February and February-March shipment have been made at 137s. 6d. per cwt. c.i.f., closing at 130s. c.i.f. (paid). Sales for delivery include March at 140s. to 133s., May 142s. to 136s., and August at 144s. to 147s. to 137s.

TAMARINDS.—West Indian new crop for March-May delivery is quoted at 32s. 6d. per cwt. c.i.f.; spot supplies are not available.

VANILLA.—At auction on Wednesday 498 tins were offered and met with a poor demand, bidding for long lengths being fully 1s. per lb. below previous values, while medium and short lengths and foxy and split were 6d. to 9d. lower. Of Seychelles 473 tins offered and 102 sold, comprising good dry firsts 7½ to 8 in., 6s. 9d.; 6½ in. to 7 in., 5s. 9d.; 5½ to 6 in., 5s. to 5s. 3d.; seconds, 3 to 5½ in., 3s. 3d.; foxy thirds, 2½ to 3½ in., 3s.; fair to good splits, 3s. to 4s. 3d.; foxy splits, 2s. 6d. to 3s. 3d.; various, 2s. 9d. to 3s.; part mouldy, 1s. 6d. to 2s.; and mouldy, 1s.; 16 tins good Java firsts were bought in.

WAX (VEGETABLE).—Japanese slabs are cheaper at 78s. per cwt. on the spot, and for shipment 68s. c.i.f. is quoted.

WITCH HAZEL EXT. is quoted at 8s. 3d. per gallon, duty paid.

Essential Oils

THE position with regard to Sicilian citrus oils is maintained. Orange and bergamot are still firm, and there has been inability to execute some recent c.i.f. orders as producers would not sell. Star anise and cassia are not offering for shipment and are inactive on the spot. Bois de rose, vetivert and geranium Bourbon are lower.

ANISE (STAR) is very quiet for the period of year. Spot in cases is 3s. 10½d., and tins 3s. 10d. per lb.; forward shipment is 5s. 2d. to 3s. 3d., c.i.f., without business.

BERGAMOT.—The position is still rather uncertain, and some recent orders for bergamot have not been executed on the Messina market. The price on spot is about 12s. 6d. per lb. for 38-40 per cent. i.a. according to seller, and 12s. per lb. c.i.f. is quoted.

BOIS DE ROSE is weak. Cayenne is easier at about 6s. 6d. per lb. spot, and Brazilian is offered at from 4s. 9d. to

5s. per lb. spot, and to come forward at 7s. 3d. per kilo c.i.f.

CASSIA, for 80-85 per cent. c.a., is quoted at 4s. per lb. on the spot, and at 3s. 8d. per lb. c.i.f. to come forward.

CEDARWOOD is firm at 1s. 4d. per lb. spot in drums.

CITRONELLA.—Ceylon is quoted at 2s. 3d. per lb. spot and for shipment at 2s. 2d. per lb. c.i.f. Java is quoted at from 2s. 4d. to 2s. 6d. per lb. c.i.f., and at from 2s. 6d. to 2s. 9d. per lb. spot.

GERANIUM.—Bourbon is lower at from 16s. 9d. to 17s. 6d. per lb. spot, according to seller, and for shipment 15s. 6d. to 16s. 6d. per lb. c.i.f. is quoted. Algerian is easier at from 18s. to 18s. 6d. per lb. spot, and at 18s. per lb. c.i.f.

GINGERGRASS is quoted at 8s. 3d. per lb. on the spot and at 7s. 6d. per lb. c.i.f. to arrive, but no business has been passing.

LEMON is most irregular, prices varying from 5s. 6d. up to 7s. 6d. per lb. c.i.f. for new crop to arrive. Spot prices are from 6s. 3d. to 7s. 6d. per lb. according to quality and seller.

LEMONGRASS, 85 per cent. citrol, is quoted at 2s. 10d. per lb. c.i.f., and at 2s. 10d. to 3s. per lb. spot.

ORANGE.—Italian sweet is firm at 10s. 3d. to 11s. per lb. c.i.f., and spot is quoted at from 10s. 9d. to 11s. 6d. per lb. Bitter on the spot is 10s. 6d. to 11s. per lb., and at 9s. 6d. to 10s. 3d. per lb. c.i.f. West Indian sweet is quoted at 9s. per lb. c.i.f., and at from 10s. to 10s. 6d. per lb. spot. For Jamaica sweet it is rather difficult to get offers. Spanish orange is offered at 7s. 6d. per lb. c.i.f. for "virgin" machine-pressed oil, and at 9s. 1d. per lb. c.i.f. for "decolorised." California orange has advanced in price, and single cases are quoted at 8s. 2d. per lb., with two-case lots at 7s. 11½d. per lb.

PALMAROSA is inactive, and spot is quoted at 11s. per lb., and to arrive at 10s. 6d. per lb. c.i.f.

PEPPERMINT.—Japanese dementholised is distinctly easier at from 4s. 9d. to 5s. per lb. on the spot for Kobayashi-Suzuki, and for forward shipment from 4s. 5d. to 4s. 7½d. c.i.f. is quoted. American peppermint is quoted at from 13s. 3d. to 13s. 6d. per lb. c.i.f. according to brand for natural tin oil, and at 14s. 9d. per lb. c.i.f. for redistilled.

PEITGRAIN.—Paraguay is quoted at 7s. 3d. per lb. spot.

SASSAFRAS.—American natural oil is rather easier on the spot at from 5s. to 5s. 3d. per lb., and to come forward at 4s. 6d. per lb. c.i.f.

VETIVERT.—Bourbon is cheaper to come forward, and 16s. per lb. spot is quoted.

WORMSEED (CHENOPodium).—Lack of demand on the American side has tended to force some dealers there to quote lower prices. The spot price is from 14s. to 14s. 6d. according to seller, and to arrive at 13s. 6d. to 13s. 9d. per lb. c.i.f.

The following arrivals have taken place from the countries indicated during the period January 29 to February 4 (inclusive): Bergamot (It.) 2 cs.; cassia (H.-K.) 14 cs.; citronella (Ger.) 4 dm.; clove (Ger.) 4 cs.; eucalyptus (Aust.) 6 dm. 1 cs.; geranium (Fr.) 7 dm.; ginger (U.S.) 2 cs.; juniper (Ger.) 2 cs.; lemon (It.) 380 cs., (Fr.) 3 cs.; mandarin (It.) 5 cs.; nutmeg (U.S.) 10 cs.; orange (U.S.) 20 cs.; patchouli (U.S.) 6 cs.; peppermint (Jap.) 59 cs., (U.S.) 2 dm.; rosewood (Braz.) 31 dm.; sandalwood (Br. India) 24 cs. (Aust.) 52 cs.; undescribed (Jap.) 5 cs., (Str.) 10 cs., (B.W.I.) 6 cs., (It.) 5 cs., (Ger.) 3 cks., (Fr.) 2 cs.

Pharmaceutical Chemicals, etc.

GENERALLY quiet markets are reported in all directions, with very little interesting news to comment upon. The new and lower prices for methyl salicylate are maintained with imported material competitive. Citric acid is being cut on a slow market and is easier.

ACETANILIDE continues steady on a quiet market: B.P. crystals and powder, 1s. 4½d. to 1s. 6d. per lb. as to quantity.

AMIDOPYRIN is unchanged, with the market dull: half-ton lots, 12s. 6½d.; two cwt., 13s. 0½d.; less than two cwt., 13s. 3½d. per lb.

ASPIRIN is moving fairly well on a limited scale, with prices unchanged at 2s. 9d. to 2s. 11d. per lb. as to quantity.

BARBITONE is rather disturbed, but quoted prices are maintained: spot, five cwt., 7s. 3d.; two cwt., 7s. 6d. and up to 8s. per lb. for small lots; some offers of small parcels are at cheaper prices.

BENZOIC ACID (B.P.) continues to be quoted ex works from 2s. 0½d. per lb. for quantities; spot parcels, from 2s. 1d. to 2s. 2d. per lb.

BENZONAPHTHOL is slow of sale: dealers offer spot from 2s. 10d. to 3s. per lb.

BROMIDES.—There is little to add to our comment of last week; competition with a limited business are the chief features: dealers quote ammonium, 1s. 9½d.; potassium, B.P. crystals, 1s. 5d. to 1s. 5½d.; granular, from 1s. 5d. per lb.; sodium, B.P., about 1s. 8½d. per lb. for quantities in cases. Home makers' list prices are unchanged: ammonium, 1s. 10½d.; potassium B.P. crystals, 1s. 6d.; granular, 1s. 5½d.; sodium, B.P., 1s. 9½d. per lb., with prices for large quantities at lower figures.

CALCIUM LACTATE is rather quiet, with prices about 1s. 1½d. to 1s. 3d. per lb. as to quantity.

CHLORAL HYDRATE.—Duty-paid crystals is firm as quoted by home makers at 3s. 1d. to 3s. 3d. per lb. as to quantity; foreign, spot, 3s. 6d. per lb.

CITRIC ACID (B.P. crystals) shows a further fall in spot values at about 1s. 10½d. per lb., less 5 per cent., for foreign, with home makers quoting this figure. Italian material to arrive is now offered at 1s. 10½d. per lb., less 5 per cent., carriage paid U.K. The market remains sluggish.

CREAM OF TARTAR continues steady and there is a healthier tone in the market: foreign, spot, about 10½s. 6d. to 10½s. 6d. per cwt., less 2½ per cent.; home make is quoted at 10½s. per cwt., less 2½ per cent.

CREOSOTE (B.P.) remains dull, with dealers offering at 1s. 8d. to 1s. 9d. per lb.

CREOSOTE CARBONATE is steady but flat: dealers quote 5s. 8d. to 6s. per lb.

GUAIACOL CARBONATE remains quiet, with spot prices unchanged at 4s. 6d. to 4s. 10d. per lb.

HEXAMINE.—Convention prices are still quoted at 2s. 2½d. to 2s. 4d. per lb. as to quantity, while outside offers on spot are at about 1s. 11d. to 2s. 1d. per lb.

HYDROQUINONE is a fairly bright item and controlled prices are steady at 3s. 7½d. to 3s. 11d. per lb. as to quantity.

METHYL SALICYLATE (B.P.).—The new scale of prices mentioned last week continue in force; these were home makers' prices. Imported material is offered at competitive prices: small parcels, 1s. 5d.; one cwt., 1s. 4½d.; five cwt., 1s. 4d.; ten cwt., 1s. 3½d.; one ton, 1s. 3¼d.; up to three tons, 1s. 3d. per lb.

METHYL SULPHONAL is unchanged with the market still quiet: quoted from 12s. 7d. to 13s. 10d. per lb. as to quantity.

MILK SUGAR is about steady, with Continental make offering at 52s. to 54s. per cwt. ex store.

PARAFORMALDEHYDE is meeting with occasional business: steady at 1s. 7d. for quantities in kegs and 1s. 8d. per lb. for small parcels.

PARALDEHYDE is slow of sale while competition is keen: quoted from 1s. 1d. to 1s. 4d. per lb. as to quantity and packing.

PHENACETIN.—Prices are now steady but business is not of much account: spot, two cwt., 3s. 9½d.; up to 3s. 11d. per lb. for small parcels.

PHENAZONE is unchanged with business limited: spot, two cwt., 7s. 2d.; smaller parcels, 7s. 3½d. per lb.

PHENOLPHTHALEIN continues very steady at the agreed prices of 5s. 11d. to 6s. 1½d. per lb. as to quantity.

POTASSIUM PERMANGANATE (B.P.) is steady and business is fair: quantities in drums, 5½d.; druggists' parcels, 6d. per lb.

POTASSIUM SULPHOGUAIACOLATE is neglected: spot is offered at about 3s. 6d. per lb.

RESORCIN is unchanged with some business moving: quoted from 2s. 11d. to 3s. 2d. per lb.

SALICIN is again difficult to obtain from the makers, who only supply small lots to regular customers.

SALICYLIC ACID (B.P.) continues undisturbed at home makers' prices of 1s. 5d. to 1s. 7d. per lb.; foreign make is not on the market.

SALOL is steady, but there is not much business of any size about: quoted from 3s. 7½d. to 3s. 10d. per lb.

SODIUM DIETHYLBARBITURATE is quite neglected: dealers offer on spot at about 10s. per lb.; f.o.b. Continent, five cwt., 9s. 7½d.; smaller lots up to 10s. per lb.

SODIUM SALICYLATE (B.P.).—There is no change to report in prices for Continental make as given last week, and up to the present home makers are at about level prices, but there may be some developments affecting the latter in due course.

SULPHONAL remains quiet with dealers quoting from 10s. 1d. to 11s. 2d. per lb. as to quantity.

TANNIC ACID (B.P. *levis*) is slow of sale: quantities at 2s. 9d. up to 2s. 11d. per lb. for small parcels.

TARTARIC ACID (B.P. crystals).—There is a little sign of a better tone and the market is about unchanged on the week with just a trifle more interest shown: foreign on spot is about 1s. 3¼d. per lb., less 5 per cent.; English make is offered at 1s. 3½d., less 5 per cent.

THYMOL is steady but very quiet: synthetic fine white, 8s. 3d. to 9s. per lb. as to quantity.

VANILLIN is unchanged, with competitive prices for a limited business: ex clove oil, about 14s. per lb. in cwt. lots; ex guaiacol, 13s. 6d. per lb.; lower prices in both instances for large quantities.

Industrial Chemicals, etc.

London, February 5

THERE is little to comment upon in this section. Business is moving as well as can be expected, while prices are steady in all directions.

ACETIC ACID is meeting with a steady flow of business, with prices well maintained: 80 per cent. technical, £36 15s.; 80 per cent. pure, £37 per ton in barrels; glacial, pharmaceutical, 99 to 100 per cent., £66 in glass demijohns; glacial in barrels, £56 per ton ex store.

ACETONE is moving in good quantities, with the market very steady: B.G.S., £71 10s. to £80 per ton, in drums, ex store, as to quantity.

AMMONIA (ANHYDROUS) is receiving good inquiry, with prices unchanged: 99.95 per cent., 10d. to 1s. per lb. in loaned cylinders, carriage paid; slightly less for big contracts.

AMMONIUM CHLORIDE shows no change, with dealers offering grey galvanising at £21 7s. 6d. to £21 10s. per ton in casks, ex store; slightly less for contracts.

ARSENIC remains slow of sale: Cornish white powdered is available at about £15 17s. 6d. to £16 per ton f.o.r. mines.

BARIUM CHLORIDE is steady, with 98 to 100 per cent. prime white crystals on spot at £11 7s. 6d. per ton in casks, ex store; business is fair.

CAUSTIC POTASH has been on the quiet side: Convention prices are unchanged for 83 to 92 per cent. solid at £29 10s. to £34 10s. per ton, in drums, as to quantity, ex store; 30s. per ton less c.i.f. Some outside competition continues.

COPPER SULPHATE is firm, but there is not much doing for export, which is very disappointing for the time of year. British Associated Makers quote upwards of £27 per ton for casks f.o.b., less 5 per cent.

FORMALDEHYDE is a fairly busy item, with spot prices about £34 per ton for 40 per cent. by volume in casks; slightly less for big contracts.

ISOPROPYL ALCOHOL has been in better call of late and prices for good quality are about steady at 11s. to 12s. gallon in drums, carriage paid.

LEAD PRODUCTS.—Convention prices for red and white lead are unchanged: lead acetate, spot, brown, £39; white, £40 7s. 6d. per ton in casks, ex store.

LITHOPONE is steady and there is a fair volume of business moving: 30 per cent. Continental red seal, £19 10s. per ton in casks, ex store; slightly less for contracts.

OXALIC ACID is well held at former rates and there is good business again moving: quantities to arrive, £32 per ton ex wharf; spot lots, 32s. 6d. to 35s. per cwt. ex store.

POTASSIUM BICHROMATE for home consumers is 4½d. per lb., with small rebates for quantities.

POTASSIUM CARBONATE is steady, but there is not much demand: 90 to 92 per cent., £23 10s. to £24; 96 to 98 per cent., £25 10s. to £26 per ton ex store; slightly less for contracts.

POTASSIUM CHLORATE is firm at the new prices of £26 15s. per ton ex store; smaller parcels, from 3d. per lb.

POTASSIUM PERMANGANATE is steady, with occasional business: quantities of commercial quality in two-cwt. drums, 5d.; smaller parcels, 5½d. per lb. ex store.

POTASSIUM PRUSSIATE is steady but quiet: yellow, in quantities, £63 10s. to £65 10s.; single casks, 7d.; small parcels, 7½d. per lb. ex store.

SAL AMMONIAC continues in fair call with prices well maintained: dog-tooth crystals, £32; medium, £23; fine white crystals, £17 12s. 6d. per ton in casks, ex store; slightly less for contracts.

SALTCAKE is firm at the full rate of 55s. per ton in bulk, delivered for home trade.

SODIUM ACETATE is moving occasionally, with prices steady at from £20 15s. per ton in casks, ex store.

SODIUM BICHROMATE continues to be quoted for home trade at 3½d. per lb.

SODIUM HYPOSULPHITE is steady and business is fair; dealers quote pea crystals, £15; commercial quality, £9 10s. per ton in casks, ex store. Home makers quote pea crystals to home consumers on contract, at £15 per ton carriage paid to buyer's station.

SODIUM PRUSSATE is not in much demand at the moment, prices steady: quantities, 4½d. to 5d.; smaller parcels, up to 5½d. per lb. ex store.

SULPHUR is very steady with a fair demand for American crude at £5 12s. 6d. to £5 17s. 6d., while Sicilian flowers are £12 5s. and roll £9 15s. per ton, all c.i.f. to arrive.

ZINC OXIDE continues unsteady owing to keen competition.

COAL-TAR PRODUCTS, ETC.—The position shows little change on the week. Cresylic acid remains quiet, and last week's slightly easier prices are maintained. Carboic acid crystals are also unchanged, while business has slackened off. ANILINE OIL is unchanged at 8½d. per lb. carriage paid, packages extra. ANILINE SALT continues steady at 8½d. per lb. carriage paid, packages extra. BETANAPHTHOL continues unchanged at 9½d. per lb. carriage paid. CARBOLIC ACID CRYSTALS continue unchanged, with makers quoting at 7d. to 7½d. per lb. carriage paid, for contract business; supplies are still short: crude carboic 60's is unchanged at 2s. 5d. to 2s. 7d. per gallon naked at works. CRESYLIC ACID is still quiet but prices show no further alteration: pale 97 to 99 per cent., 2s. 1d. to 2s. 3d.; refined, 2s. 8d. to 2s. 10d.; dark 85 per cent., 1s. 8d. to 1s. 10d. per gallon naked at works. NAPHTHALENE is unchanged: flakes and balls, £14 15s. to £15 per ton, in cases, ex wharf. METHYL ALCOHOL on spot remains unchanged at about £42 per ton in drums; cheaper prices for quantities to arrive. PYRIDINE continues lifeless and nominal at 4s. to 4s. 6d. per gallon f.o.b. TOLUOL is in fair demand with the market steady: commercial 90's, 1s. 10d.; pure, 2s. 2d. per gallon ex works. XYLOL is dull and unchanged: commercial, 1s. 10d.; pure, about 2s. per gallon ex works. PITCH continues unchanged and quiet at the old controlled price of 47s. 6d. per ton f.o.b. East Coast.

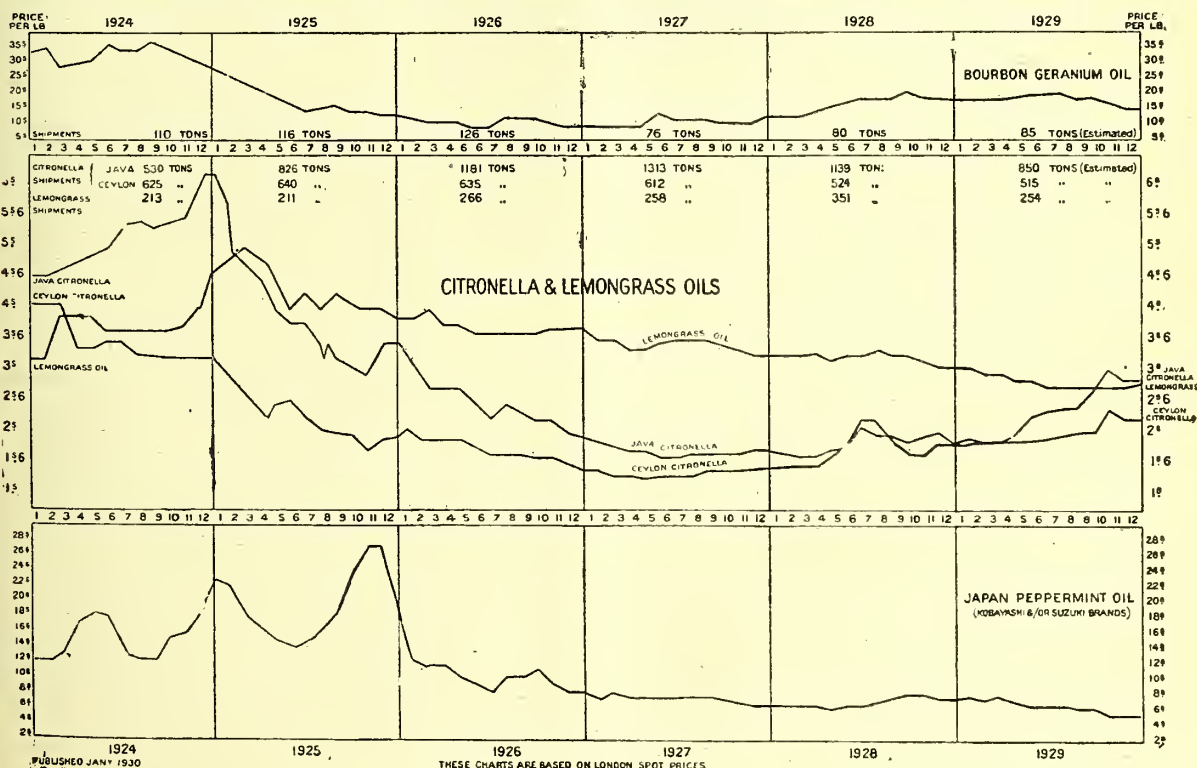
Fixed Oils, etc.

QUIET markets continue to be reported, and the few price changes are limited to slight depreciations. Turpentine is slightly cheaper, while linseed oil is easier on spot and firmer forward. ACID OILS remain dull but prices are steadier: coconut and/or palm kernel, 32s. 6d.; ground nut, 29s.; soya, 27s. 6d. spot. CASTOR.—Prices show a slight recovery but the market is quiet: pharmaceutical, 48s. 6d.; first pressings, 43s. 6d.; second pressings, 41s. per cwt. on the spot in barrels in not less than one-ton lots. COCONUT is steady but quiet: deodorised, spot, 41s. 3d.; Ceylon, 36s. c.i.f. COTTON is dull and easier in some respects: deodorised, 38s. 6d.; common edible, 36s. 6d.; soapmaking, 33s.; crude, 31s. spot. GROUND NUT.—Prices are maintained but business is poor: deodorised, spot, 42s.; crude Oriental, 37s. c.i.f. PALM KERNEL is slow of sale but prices are steady: deodorised, 41s.; crude, 34s. 3d. spot. PALM continues quiet, with quoted prices about level on the week: Lagos, 32s. 6d.; mediums, 31s. 6d.; hards, 31s. 9d.; softs, 32s.; bleached, 34s. 3d. spot. RAPE is slightly easier on a slow market: refined, 43s. 6d.; crude, 42s. spot. SOYA is quiet and a shade easier: deodorised, 37s. 9d.; crude, 33s. 9d. spot. LINSEED (raw, naked).—Whilo spot and near positions are a point easier the forward positions are somewhat firmer; market has been rather quiet: on spot, 44s. 3d.; February, 40s. 1½d.; March-April, 39s. 1½d.; May-August, 38s. 9d. Boiled oil, 47s. 6d. spot. TURPENTINE is rather easier, closing at 42s. 9d. per cwt. on the spot; February-April, 43s. 3d. London deliveries for last week were 1,774 barrels, making a total since January 1 of 8,249 barrels, comparing with 7,968 barrels for the same period last year. Stocks were reduced to 35,058 barrels, which, together with the afloats, made the London visible supply 35,958 barrels, which compares with 33,050 barrels at the same date last year. RESIN.—Trading was limited and prices were rather easier, in spite of the American stocks having been further reduced. C.i.f. terms were about as follows: B/D 16s. 1½d. to 16s. 9d., E/F 17s. 3d. to 17s. 6d., M 18s. 4½d., N 18s. 6d., W/G 18s. 10½d., and W/W 19s. 10½d. per cwt. WOOD.—Hankow in barrels on spot is dull and easier at 67s. 6d. per cwt.

Essential Oils Chart

THE chart issued annually to the trade by R. C. Treatt & Co., Ltd., 11 Hart Street, Mark Lane, London, E.C., showing the price movements of some essential oils with the total shipments for the various years has recently

made its appearance. Graphs of price fluctuations, based on the London spot prices have been traced out for Bourbon geranium, Java and Ceylon citronella, Cochin lemongrass and Japanese peppermint oil for the twelve months of each year from 1924 to 1929 inclusive.





Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

A Member's Dissatisfaction

SIR,—“Ph.C.,” in his letter of dissatisfaction (*C. & D.*, January 18, p. 84), speaks of that “wonderful thing called pharmacy.” Well, what is it? It has been suggested that we should have a clear definition of what constitutes the business of a chemist and druggist; it might also be as well to get a true conception of what is included in the term “pharmacy.” A cynical observer might define it as that art and skill which pharmacists learn and leave behind them when they issue successfully from the examination-hall; for, as the majority of graduates turn to retail business to provide them with a living, pharmacy becomes rather at a discount. Of course, there is a certain amount of dispensing under the N.H.I. scheme, but this has been reduced to a process which can hardly be termed pharmacy. Here, I think, “Ph.C.” is likely to come across the first difficulty, for it follows that most of us, instead of practising pharmacy, earn a livelihood by trade, and of this the Society has no official knowledge or cognisance. Without being quite so drastic in my ideas regarding No. 17 as your correspondent, I think that a little more treatment of the ordinary members as intelligent beings would do away with some of the indifference which shows itself by the lack of attendance at branch meetings and other functions. In this connection I do not think that private members, as a rule, realise the power they have if they would only exercise it.—Faithfully yours,

LIVELY (27/1).

SIR,—I am in sympathy with “Ph.C.” (14/1). The fair and proper way for the Council to act is to grant the honorary degree to all Ph.C.s who apply for it. The Council, however, do not appear to be built on broad-minded lines, but revolve in their own narrow sphere, and in their self-satisfaction forget that the Ph.C. has to earn his living. How many members of the Council are Ph.C.s, and are they of the “shop-keeping” brand or the “teaching” brand? I am myself a plain “chemist,” but I can place B.Sc. after my name, also F.Z.S., and if I was called upon to sit in judgment on the actions of the Council I should use the latter title and also the punishments as used in Z.S. quarters. My sympathy for “Ph.C.” is purely sentimental, and the one time I really did feel sorry for a man so misguided as to take the Ph.C. was at a certain college I visited, where the pharmacy lecturer or demonstrator could not attend the official function in cap and gown, and consequently had the good sense not to appear, neither would he appear in any of the groups of lectures. But how humiliating for the “profession”! Even the porter had a uniform. The man in training should seriously consider his position. Is he going into business or into the scientific side? If into business, then the ordinary Qualifying examination is sufficient. If into the scientific side, let him go for the cap and gown; the Ph.C. carries him nowhere. It is neither fish, flesh nor fowl, nor even good red herring, anywhere but at No. 17. I keep five good assistants, but would not consider the application of a Ph.C.

Yours faithfully,

ARSENIC (29/1).

Protecting the Public

SIR,—As suggested in an editorial article in your issue of February 1, I think it quite time the Pharmaceutical Society looked up the unqualified seller of agricultural poisons. In many instances he gets the business because they are much less particular in the carrying out of poison regulations. I further suggest that these licences should not be issued locally, but in Edinburgh or London, or at any rate the county town; local magistrates grant these very willingly, as they do not see why chemists should have a monopoly in the sale of poisons. And I further

suggest that applicants should be compelled to prove their necessity and absence of registered chemists in the neighbourhood. Those getting a licence should be compelled to keep the poisons in a locked store for such goods alone, the key to be kept and the poisons handled only by the licensee. At present anyone handles them, and they are kept with other goods.—Yours, etc.,

W. C. (3/2).

Pharmacy Week

SIR,—Mr. Montague C. Rock's four reasons against a further experimental Pharmacy Week (*C. & D.*, January 25, p. 121) deserve careful reading, and there is a lot to be said in favour of his objections, the best one, to my mind, being the first. In 1932 there will be, or should be, a strenuous endeavour to improve our position and remuneration under the N.H.I. service, and this cannot be done without funds to back up our efforts. This service is the one thing, with the exception of the occasional sale of a few scheduled poisons, which is legally restricted to pharmacists, and we should, therefore, do our best to ameliorate our position respecting it and bring it really up to a professional status. Set against this, I do think that we ought to make some regular and periodic attempt to keep our qualification and what it stands for before the public. I am not bound down to the idea of the window displays as carried out last year, although I think the fundamental idea a good one; it evidently pays the proprietors of well-known advertised lines to organise window displays by districts in order to produce a mass effect, and the combined shows of pelmets and window cards must have attracted some attention. Where the trouble was, to my mind, was that the windows tended to be of two styles, one the ultra-professional, and as such being right over the heads of most members of the shopping public, and the other type purely commercial, in spite of the recommendations set out by the R.P.U. What I consider would be a suitable display would be one which combined pure drugs and chemicals, such as cod-liver oil, liquid paraffin, chemical food and similar articles packed by chemists, and particularly such things as have of late been taken up by grocers and others although purely chemists' lines. Even fish shops to-day show and advertise cod-liver oil. Such a display, backed up by suitable cards issued by the R.P.U., so that all would be uniform, would do the most good both generally and individually. Of course, all patents would be omitted.—Faithfully yours,

FENESTRA (4/2).

SIR,—Mr. W. Birks (of Raimes & Co.), in his letter last week, used this phrase: “Is it not a fact that the ordinary chemist's window is exploited by advertisers?” Surely Mr. Birks is not serious when making this statement. According to the “Modern English Dictionary,” “exploit” means “to make use of for one's own profit.” No advertiser makes use of a chemist's window for his own profit, but rather to enable both the chemist and the advertiser to make profits to their mutual advantage. Where would the average chemist be but for the sale of nationally advertised products—and where, for that matter, would the wholesaler be? Advertised articles are the easiest articles a chemist sells. The demand for them is created by the advertiser, and the chemist only has to hand over the counter the article demanded. If chemists withhold displaying nationally advertised goods in their windows, they are playing right into the hands of the multiple stores, who are always only too willing to co-operate with manufacturers who extensively advertise their products. If retail chemists generally followed this example (as many of them do), their turnover—and profit—would increase very considerably. As to wholesalers, they are—in the majority—unusually difficult to interest when a special push is being made by the manufacturer. When I read Mr. Birks's letter, I had to verify the date of the issue of the *C. & D.*, as I thought, perhaps, I might be reading a copy dated 1900 instead of 1930. This is the age of advertising, and the go-ahead chemist capitalises on the money expended by the advertiser by linking up with his campaign and displaying in his window the goods advertised.—Yours faithfully,

FISMA (5/2).

P.F. 666

SIR,—Have we realised that under the new terms the public are paying 1s. 3d., 3s. and 5s. for an article unstamped which was the same price when it bore a 3d., 6d. or 1s. stamp? What will happen if this leaks out? I have a fair stock of the stamped variety, and have been requested to return it, but do not intend to do so. Why should I give the makers a present of the stamps? Let the public have them.—Yours, etc.,

FAIRPLAY II (3/2).

SIR,—“Fairplay,” in his letter published in your issue of February 1, has undoubtedly voiced the opinion of most retail chemists regarding the unfair appropriation of our rights by Phosferine, Ltd. In my own case, when I found that no allowance had been made for the value of the stamps or even for the difference between the cost of the old and the new packs, I promptly returned the new packages and asked that stamped packs be sent. As the reduction in price was so small I preferred to be on the same plane as grocers and herbalists and sell the stamped goods, which many of the public will maintain are the genuine articles. Their reply to my protest may be of interest. They state that instructions to return old stock were issued on legal advice, and not from any ulterior motive (one I left to wonder why legal advice should be necessary), no claim being made for rebate on the stamps. They do not say that the stamps will not be used for the issue of stamped goods to grocers, etc. (who, unfortunately for Phosferine, Ltd., are not privileged under the Medicine-Stamp Acts). Their reply also states that since the war manufacturing costs have increased enormously—printing, cartons, show-cards, etc., and hitherto no opportunity has arisen whereby they could recoup themselves for these heavy additional charges. (The chemist, one concludes, has no increased costs to bear.) They also promise extensive advertising, and emphasise their special new window-display terms, concluding their defence of their policy by suggesting that my protest was ungenerous. I suggest that chemists should insist on being supplied with stamped preparations, and endeavour to retain for themselves the special privilege which is theirs under the Medicine-Stamp Acts and was not intended to be exploited by manufacturers.

Yours truly,
M.P.S. (5/2).

SIR,—May I support the remarks of “Fairplay” as regards the above. I think it is about time we retail chemists wakened up to the fact that a good number of firms are playing with us, or at least treating us as if we were absolutely dependent on them for our “daily bread.” A combined refusal to handle unprofitable lines would, I think, show that we are not sweet-shop proprietors, but business men who have had to pay hard cash for our education.—Yours, etc.,

BM/DBSL (4/2).

SIR,—We have already been in correspondence with the proprietors of Phosferine and others now marketing unstamped proprietary articles which hitherto bore a Revenue Stamp, and have come to the conclusion that no amount of argument will ever persuade them to yield up anything like a fair percentage of the extra profit obtained through the instrumentality of those legally allowed to sell unstamped; without our aid the saving could not be effected. We would therefore suggest action instead of words; let every chemist ordering direct, or through the wholesaler, forgo the small amount of extra profit, and demand that stamped goods only shall be supplied. Considering the huge decrease in revenue that must result through manufacturers taking advantage of our position, it is certain that this deficiency must be made up by some other form of taxation; we, the retailers, will have to help to foot the bill as well as Phosferine, with this difference, that they will have five-sixths of each 3d. or multiple thereof, whilst we shall have one-sixth only to pay our share of taxation. Our experience of such articles tends to prove that divulging the formula to escape duty has been the chemist's opportunity to enlighten the public as to the vast difference between the price charged and

the intrinsic value of the ingredients; at least 50 per cent. of inquiries are diverted to other makes, yielding us a bigger percentage of profit and the customer a considerable saving of money which often is used to make some other purchase. The results are quite satisfactory to both ourselves and our customers.—Yours truly,

RETAILERS (4/2).

A Pharmacist's Petition

SIR,—May I, through your columns, bring to the notice of all chemists in the British Isles that I am preparing a petition to the president of the Pharmaceutical Society, as follows:—

“We, the undersigned wish to impress upon the Council of the Pharmaceutical Society the desirability of obtaining legal sanction to the idea that no one, except persons properly trained for the job—i.e., persons holding the certificate of the Pharmaceutical Society, or persons directly under the supervision of such holders—shall be entitled to sell any internal or external remedy, simple or compound, concerned with the public health.”

The aims of this petition are very simple and clearly defined, and it is in the interest of all chemists that they affix their signatures and assist us to dam the flow of legitimate pharmacy business that is passing into the hands of drysalters, general stores, and the like. I shall be delighted to send the petition to any chemist who cares to apply; I suggest that all branch associations take the idea up, and present petitions of their own, without delay. Please do not let this appeal go unheeded.

Yours faithfully,

Enfield Highway.

A. R. CROSS.

Drift and Apathy

SIR,—It is curious to a constant reader of the *C. & D.* how the same suggestions crop up time and time again. I am induced to write this by the remarks in the issue of January 11 (p. 43) to the effect that the Council should take the ordinary members of the Society into their confidence and let them know what is being done, if anything, on their behalf in these trying times. It may be said that members of the Council go about the country addressing branch meetings and they are always ready to tell the rank and file what they know; but my experience of these addresses is that they are more or less on stereotyped lines. I have heard this type of address so often that I am not surprised at the poor attendance at these meetings, when the same fare is dished up at every sitting. I would, however, make a further suggestion, and that is that the Council provide the Branch secretaries with a *résumé* of the work done at regular intervals; it could be treated as confidential, and could be read to the members. This would give every member a chance of knowing what was being done by headquarters on his behalf.—Yours, etc.,

CAMBIARE (20/1).

Sending the Boy Round

SIR,—I was rather amused to read in your report of a meeting of the West Ham Insurance Committee (*C. & D.*, January 18, p. 78) that one of the members suggested that chemists should employ a lad to deliver insurance medicines. I am not situated in West Ham, so that I cannot pretend to know the conditions obtaining in that district; but I do know that I get insurance customers from a large radius (principally, I suppose, because I am fairly central), and as, following the usual rule, the bulk of the scripts come in during the last hour of the day, a boy would be well into the late hours delivering them north, south, east and west. I suppose the next suggestion will be that panel chemists should institute a motor delivery service, and considering the magnificent profits we are supposed to make out of the contract a little extra expense of this kind would be a mere detail. Each panel patient expects to get a service to himself, and if delivery at every house were instituted we should still have complaints of delay if the messenger were not sent off in ten minutes or so. One solution, of course, would be for the Insurance Committee to pay a delivery fee on all scripts where the customer found it inconvenient to wait or call back. Would they?

Yours, etc.,

MERCURIUS (27/1).

Legal Queries

D. R. G. (16/1) recently bought a chemist's business; but did not take over any of the existing debts or liabilities. He is now being pressed to pay an account due from his predecessor, and although he has explained the position to the firm he is still being threatened with legal proceedings. What should he do? [He is not liable to pay any of his predecessor's debts unless he expressly accepted responsibility. If he is sued by the firm he should defend the proceedings.]

G. T. T. (9/1).—The word "balsam" was officially declared in 1907 to indicate in itself "a curative or remedial agent possessing softening and soothing properties." Consequently, the use of the word "balsam" in conjunction with a name indicating a part of the body renders the article liable to medicine-stamp duty. On the other hand, the inclusion of the word "balsam" in the title "Balsam of Linseed, Liquorice and Aniseed" does not in itself create liability to medicine-stamp duty, since the title does not indicate the action of the preparation on any part of the body.

E. R. M. (10/1).—A qualified chemist keeping open shop for the retailing of poisons is authorised to supply "dangerous" drugs to medical practitioners and registered dentists without having to obtain a special licence. Sales of "dangerous" drugs to medical practitioners or registered dentists may be made on a signed order bearing the name and address of the purchaser as well as the name and quantity of the article required, or by making an entry in the poisons register, which is signed by the purchaser in the same way as is applicable to a sale of any poison included in Part I of the Schedule.

J. S. C. (17/81) occupies a shop in Scotland under a lease which will expire in 1935. His landlord lives in the premises above the shop and wishes to sell the whole of the property, which he has offered to "J. S. C.," who, however, does not wish to buy them. If "J. S. C." refuses to purchase, can he be turned out of the shop in 1935 by his present landlord or whoever may have bought the property in the meantime? If so, can "J. S. C." claim compensation at the end of his lease or can his successor do so if he sells the business during the next five years? [In England "J. S. C." or his successor, could in the circumstances stated, subject to giving the requisite notice, claim compensation for loss of goodwill, or, alternatively, a fresh lease at the end of the present term, from the landlord for the time being, by virtue of the Landlord and Tenant Act, 1927; but we cannot say what the legal position is in Scotland.]

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

Address Wanted

The address of Mr. Green, now or lately residing at Doncaster, and calling on chemists in Yorkshire, is wanted by Mr. J. Williams, chemist, 19 Beckett Street, Leeds.

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Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

F. S. B. (4/2).—TONIC P.F. 666.—This formula is published in *The Chemist and Druggist Diary*, 1930, p. 310.

S. P. (1/2).—PHOSPHORISED HEALTH SALT.—Sodium acid phosphate 418 gr. is neutralised by sodium bicarbonate 1 oz., and this may be used diluted with sugar if desired, or used in a concentrated form. If concentrated and without sugar add $\frac{1}{2}$ drim. of sodium chloride to the ounce. If only a phosphate in a compound is required the following will be suitable:—

Sod. bicarb.	...	...	...	3ij.
Ac. tart.	...	...	...	3iss.
Pot. ac. tart.	...	...	...	3iss.
Sod. phosph. exsicc.	...	...	...	3j.
Sacch. alb.	...	...	...	3vj.

S. G. (11/128).—AGAR-AGAR JELLIES.—The following is a formula for making agar-agar jellies:—

Sugar	...	...	...	23 lb.
Glucose	...	...	...	16 lb.
Water	...	...	...	5 gall.
Agar-agar (granulated)	...	...	...	15 oz.
Citric acid (powdered)	...	...	...	2 oz.
Flavouring	...	...	...	a sufficiency
Colouring	...	...	...	a sufficiency

Soak the agar-agar for about two hours, then heat to boiling, allow to simmer for a few minutes, and strain. Add the sugar, next the glucose, boil again until sufficiently jellied, then add the colouring and allow to cool. When cool add the flavouring essence and citric acid (dissolved in a little water), and finish in the usual manner.

Ucal (29/98).—LIVER DISEASE IN POULTRY.—Liver disease is evidenced by a sickly yellowish appearance about the head and comb. It is generally the result of over-feeding on too fattening material, such as maize and other starch foods, with highly spiced condiments. It sometimes causes much loss if neglected. If of a mild type, and when first noticed, Epsom salts and blue pill will often have a good effect. Treatment should be directed to reducing the fatty condition and arousing the liver to work by daily doses of calomel gr. j., or a pill as follows:—

Podophyllin	...	...	...	gr. 4.
Pil. rhei. co.	...	...	...	gr. ij.

daily for a week, or until there are signs of improvement. In tuberculous disease of this organ, of course, there is no cure, and if suspected the best course is promptly to destroy the sufferer and burn the carcase.

Retrospect of Fifty Years Ago

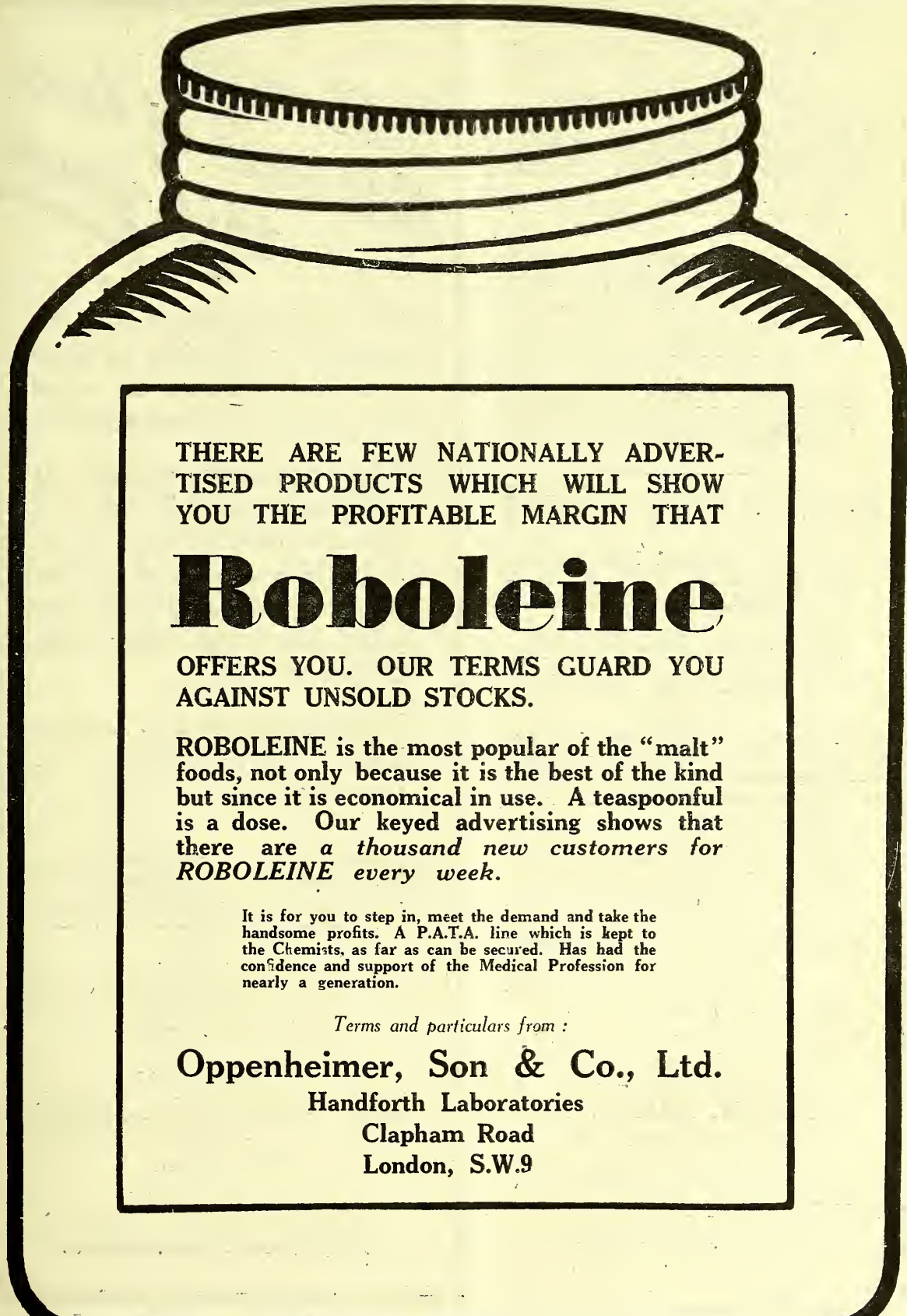
Reprinted from

"The Chemist and Druggist," February 15, 1880

Registration Statistics

The number of candidates for the Preliminary examination during the past year was 1,474, against 1,130 in 1878, and the number of successful candidates was 783 last year, against 538 in the year previous. The percentage of failures was represented by 46.88 last year, while in 1878 the figures were 54.27. Last year was the first occasion on which candidates were tested in translating English into Latin, and it was thought that many failures would result. It was an extraordinary and gratifying fact, however, that out of 176 candidates only 17 failed in Latin. There had been an increase of numbers of pharmaceutical chemists and chemists and druggists on the Register during the year of 242, and the totals on December 31 were: Pharmaceutical chemists, 2,999; chemists and druggists, 11,252; total, 13,551.

Owing to pressure on space this week's portion of the *C. & D. Commercial Compendium* is held over.



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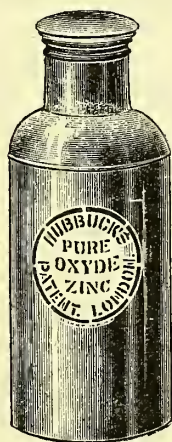
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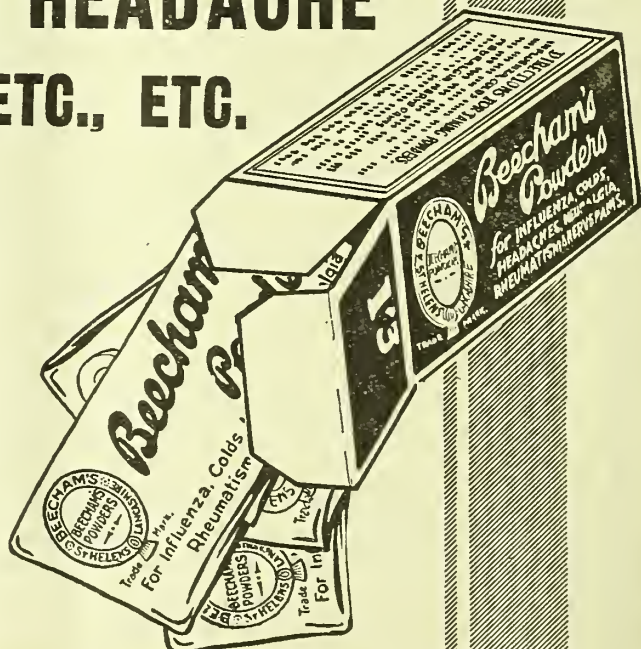
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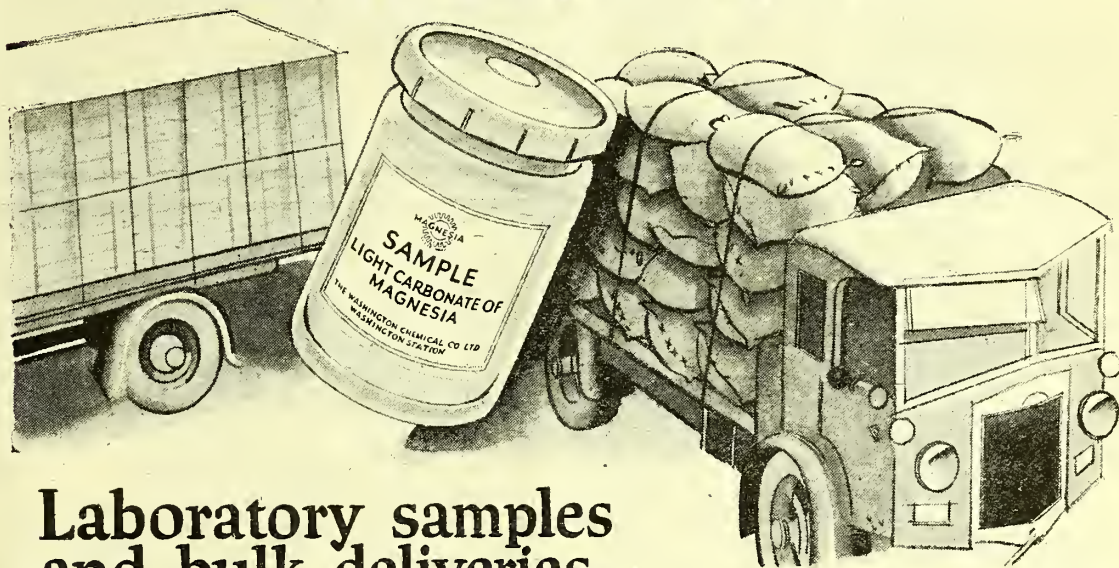
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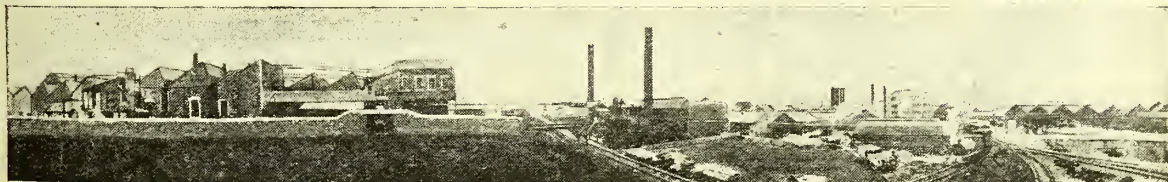
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for the production of the finest grades of magnesia*

"SUDEX" SENNA PODS

HAND PICKED & SELECTED ALEXANDRIAN

Packed in Large and AttractiveCartons to sell at6^d

You must stock Senna Pods—why not stock them in this attractive form?

48/- Gross, showing Profit 50% on cost.
CARRIAGE PAID, WITH DUMMY CARTONS AND SHOWCARDS.*Send for Sample and particulars of SPECIAL OFFER.***THE SUDEX COMPANY** (Tel. No.: Monument 3148), 6 Fen Court, London, E.C.3
Laboratory: 82/84 Bermondsey St., London, S.E.1

QUININE

QUINIDINE
CINCHONINE
CINCHONIDINE

and

SALTS

Sugar-coated Quinine Tablets and Pills.

Gelatine-coated Oval Pills.

BANDOENG
JAVA**BANDOENG QUININE FACTORIES**AMSTERDAM
De Wittenkade 49-50.

Telegrams: "Kinine'abriek Bandceng."

Samples, prices and particulars on application.

Telegrams: "Semadmy Amsterdam."

SOUTH AFRICA

*Those who desire new, or increase of old business in this flourishing and growing Dominion should treat with***LENNON LIMITED**
WHOLESALE AND RETAIL
CHEMISTS AND DRUGGISTSDruggists' Sundriesmen.
Dealers in Surgical Instruments, Dental, Optical, and Photographic Goods, Perfumery and Assay and Mining Requisites. Contractors to Hospitals and Public Institutions.**AGENCIES UNDERTAKEN**

London Office:

12-14 LAFONE ST., LONDON, S.E.1

'Phone: HOP 5594.

DUTCH
Sugar of Milk.
"THE BEST"HOLLANDSCHE
MELKSUIKERFABRIEK
Amsterdam

GARFIELD TEA

PROMPT SHIPMENT

ALL SIZES

'Phone or Write:

GARFIELD TEA CO.

44 Foxbourne Road

BALHAM, LONDON, S.W.17.



SULPHUR TABLETS

of delightful flavour and velvet smoothness

	7 lbs.	1/2	per lb.
14	„	1/1	„
28	„	1/-	„
56	„	11d.	„
112	„	10d.	„

This artistic and attractive display material, well printed in fast colours that will not fade in the sunniest window, is given FREE with all orders for 14 lbs., together with a generous supply of cartons.

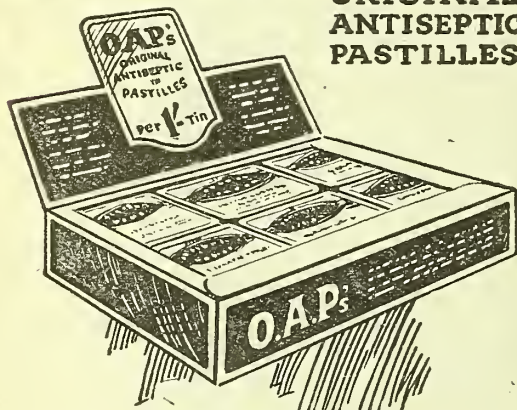
IT TREBLED OUR SALES LAST YEAR ;
let it do the same for you this season.

SAMPLE CARTON ON APPLICATION.

BURGOYNE, BURBIDGES & CO., LTD.
Manufacturing Chemists, LONDON, E.6

OAP's

**ORIGINAL
ANTISEPTIC
PASTILLES**



As prepared by **Wm. ALFRED JONES**, late
Joint Proprietor of the **Liverpool Throat
Hospital.**

A Profitable Winter Line

3/4 per lb. in 1 lb. and 4 lb. tins (to
retail at 5d. per oz.—6/8 per lb.).

7/6 per dozen 1/- tins.

10% discount on window display orders
of 14 lbs. and 3 doz. 1/- tins.

Monthly dis. 5%.

Carr. paid on 25/- orders.

Display outers, Showcards, Counter
leaflets, etc., free.

Send a trial order to

**Sole Distributing Agents,
Wm. Alfred Jones Limited,
West India House, Liverpool.**

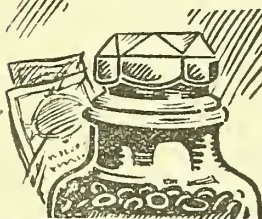
Wholesale Depots:

London: Thos. Hodgkinson,
Prestons & King, 262
Bishopsgate, E.C.2

Bradford: Brook, Parker
& Co., Ltd.

Birmingham: A. S. Price
& Co., Ltd., Blackheath.

Bath: Steele &
Marsh, Milsom
Street.



16 Envelopes

(parchment)
free with each
lb. ordered.

Sample Tins

supplied for free
distribution
amongst your
customers.



The PINEOLEUM CO.

announce

important change in their
distributing organization

FROM FEBRUARY 15th, 1930, onwards,
distribution of the Pineoleum products
will be handled by the Chesebrough
Manufacturing Co. Cons'd., instead of
by Messrs. Brooks & Warburton, Ltd.

Orders for Pineoleum products should
be placed through your usual wholesaler
or through the Chesebrough salesmen,
or sent direct to the Pineoleum Manu-
facturing Company, (Inc.), c/o the Chese-
brough Manufacturing Co. Cons'd.,
Victoria Rd., Willesden, London, N.W.10.

Dr. BENGUÉ'S BALSAM

RHEUMATISM, NEURALGIA, GOUT.

Dr. BENGUÉ'S ETHYL CHLORIDE.

Dr. BENGUÉ'S DRAGÉES.—EUPURGO.

PULMO (BAILLY).—FORXOL.—OPOBYL.

ANESTILE.—NARCOTILE.—HEMOSTYL.

LIPIODOL.—MUTHANOL.—ARHEMAPECTYL.

ENTERO ANTIGENS.—STAPHYLOTHANOL.

NEOPANCARPINE. RICARD'S CACHETS.

**BENGUÉ & CO., LTD., MFG. CHEMISTS,
24 FITZROY STREET, LONDON, W.1.**

Zam-Buk

A SOUND PROPOSITION

Always Advertised — Always Selling

GALLOWAY'S COUGH SYRUP

*SHOWS OVER 50% PROFIT
WHEN BOUGHT ON BEST TERMS*

A £5 ORDER

ENTITLES YOU TO

**10% DISCOUNT & 2½% FOR PROMPT CASH
WITH A BONUS OF
½ DOZ. 1/3 SIZE OR ¼ DOZ. 2/6 SIZE
FOR 14 DAYS WINDOW DISPLAY.**

1/3 SIZE 12/- PER DOZ.

2/6 „ 24/- „ „

CARRIAGE AND PACKING FREE IN UNITED KINGDOM

**LOOK TO YOUR STOCKS AND
SEND YOUR ORDER NOW**

**P. H. GALLOWAY, LTD.
LONDON, S.E.17**



Sells at
1/3 PER
TIN.

10/- Per Doz. **1/3** tins
Per Doz. **7 1/2** packets **5/-**

Attractive Display Material and a liberal supply of sample packets accompany each parcel.

PASTILLES LIMITED,

124 HIGH STREET, SHOREDITCH, LONDON, E.1

LAKEROL

BRAND

BRONCHIAL PASTILLES

Quick Turnover Generous Profit New Customers

THERE is nothing experimental about stocking LAKEROL Bronchial Pastilles. The introduction of the new 7 1/2 d. packet, coupled with an enormous sample distribution and advertising scheme, assures a regular and increasing demand.

LAKEROL Bronchial Pastilles are praised by leading medical men and are constantly prescribed in hospitals, institutions, etc. Why not start with a trial dozen?



Sells at
7 1/2 d. PER
PKT.



A QUICK SELLING NOVELTY

Suitable for the Pocket or Handbag
RETAILS AT 1/- P.A.T.A.

CLAY & ABRAHAM, LTD.
Manufacturing Chemists, LIVERPOOL

IODINE

"PEN"
BRAND

HENRY'S CALCINED MAGNESIA

Continues to be prepared with scrupulous care, in the greatest chemical purity, by
Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peters, Manchester.
And is sold in Bottles, authenticated by a stamp bearing their name. Trade Mark, "Henry's Calcined Magnesia".
New York: Messrs. SCHIEFFELIN & CO., William Street. PRICE 2s. 9d. Paris: Messrs. ROBERTS & CO., 5, Rue de la Paix.



'Petrolagar'

(Regd. Trade Mark)

FREE OFFER.—You may have one 8-oz. bottle free with one dozen 8-oz. size, any assortment, or one 16-oz. bottle free with one dozen 16-oz. size, any assortment (not a mixed dozen of large and small).

Obtain the best terms by ordering 'Petrolagar'
Brand Emulsion in dozen lots from your wholesaler.

PETROLAGAR LABORATORIES LTD., BRAYDON ROAD, LONDON, N.
Phone: CLISSOLD 7572.

Behind Each Tin

The Seal of Security



M.R.P.....1s. 0d. per tin

Send for Terms

An effective chest lozenge, made with scientific exactitude from the purest materials. Allow a good profit and—most important—worthily maintain any pharmacist's reputation.

**CHILL WINDS are TRADE WINDS
to the Chemist who Stocks**

IRVING'S Yeast-Vite TONIC TABLETS

OUR NATION-WIDE ADVERTISING is creating an unprecedented demand.

A well-known Manchester Chemist, when sending us a large order recently, writes as follows:—

"Might I mention at the same time that it is a pleasure to sell a line like yours which bears such a good profit and sells so freely."

LOOK at the profit on a Special 14 day Window Show Parcel. Sent Carriage Paid together with BONUS and FREE Display Material.

		COST.		SELLS.		
6 doz. 1/3 size @ 12/-	..	£3 12 0	..	£4 10 0	} £5 PARCEL (P.A.T.A.) 46% PROFIT ON COST 30 days CREDIT	
1 " 3/- " @ 28/10	..	1 8 10	..	1 16 0		
	..	£5 0 10	..	£6 6 0		
BONUS 12 only 1/3	..	free	..	15 0		
2 " 3/-	..	free	..	.6 0		
30 days NETT	..	£5 0 10	..	£7 7 0		PROFIT £2 6 2.

LATEST SHOW MATERIAL to link up with our huge Advertising sent FREE and POST FREE! State whether required for Small, Medium or Large Display.

IMPORTANT.—Our new Factory is in full swing, but we are taxed to the utmost in meeting all demands. Order NOW to avoid losing sales.

IRVING'S YEAST-VITE, LTD., WATFORD, HERTS.

Telephone:—WATFORD 1475 & 806 (5 lines).

Telegram: YEAST-VITE, WATFORD, HERTS.

**An old favourite
under a new name**

Snowfire VISIL

formerly known as
Snowfire JELLY

The word VISIL means something soft and smooth. It is the new registered trade mark name for Snowfire Jelly—the soft, jelly-like form of the famous Snowfire Tablet. Thousands already prefer this softer form, and display announcements in the National dailies, advising the public of the change of name, will give a real "big push" to sales! The new pack is ready. Get in your stocks now!

F. W. HAMPSHIRE & CO. (1927), LTD.
SUNNYDALE WORKS, DERBY.

The Profit's the thing

A steady profit is assured if you stock

CONSTIPON

The demand is good, and
sales are increasing daily.

TABLETS per box 3d., 6d. & 1/-

Stocked by Scottish Wholesale Druggists.

CONSTIPON

65 West Regent Street, Glasgow.

"Multum in Parvo."

"VAPOFORM" Disinfectant

Regd.

For disinfection of
Rooms,
Confined Spaces, &c.

for HOME
and HOSPITAL

Has no injurious effects
whatever on Furniture,
Utensils, &c.

Small size, capable of disinfecting
1000 to 2000 cubic ft., 8/6 per doz.

Large size, capable of disinfecting
3000 to 6000 cubic ft., 13/- per doz.

Sole Proprietors—

HARKNESS, BEAUMONT & CO., LTD.
Wholesale Chemists, EDINBURGH.



The 'Aspro' Review


17% Extra Profits.
"British to the Core"
New Series Display Features.


Beautiful New Display Features Printed in Natural Colours for Exclusive Showing by British Chemists

ACCEPTING the advice of a number of leading chemists to provide high-class display features we have pleasure in announcing the completion of a new series, exclusively produced for chemists.

The illustrations on these pages represent actual photographs of cut-outs just received from the printers. The size of each is approximately 22 by 14 inches, and the printing has been executed in full colour with a gloss finish. The composite display shown below is a folding combination in group form of the same figures and has been produced to place on counters, shelves, and in corners and recesses.

From the point of artistic value these displays will not only attract attention, but they will add tone to your display work—give an undeniable impression of progression—and the 'ASPRO' messages link your store to the largest medicine advertising campaign in the world.

Simply write or 'phone, and a complete set will be forwarded to any chemist in Great Britain.

There is no doubt that the new displays will further enhance 'ASPRO' sales for chemists. Turn up your ledger and analyse your 'ASPRO' purchases. IF YOU ARE NOT BUYING ON OUR BONUS TERMS you are losing an average additional 17 per cent. net profit, so figure out exactly what this extra percentage would mean to you EACH YEAR. With the cost of doing business rising higher year by year, is it good business to MISS an extra 17 per cent. net?

The 'ASPRO' bonus is as follows:—On a one gross order for 10's the bonus is one dozen packets; on half-gross order, 2 dozen packets. Half gross 10's is the minimum order accepted for Bonus purposes.

17% Extra Profit if You buy Your 'ASPRO' Supplies on Bonus Terms

On a one gross order for 27's the bonus is 2 dozen packets, on a half-gross order 1 dozen packets, and on a quarter gross order ½ dozen packets. A quarter gross order is the minimum quantity. There is no bonus on 5's or 60's.

The conditions are that the Chemist who buys on these terms undertakes to display prominently 'ASPRO' advertising matter in his shop window for 14 days, and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO,' but should enable the Chemist's staff to make other sales to these customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e.,

single lots 6 dozen 10's or 3 dozen 27's will qualify the Chemist.

You order as follows:—We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler, so that we may forward the order on and the Bonus will be supplied direct by us.

Ordinary prices for 'ASPRO' are as follows:—

- 3d. size containing 5 tablets 2/3 dozen.
- 6d. size containing 10 tablets 4/6 dozen.
- 1/3 size containing 27 tablets 11/6 dozen.
- 2/6 size containing 60 tablets 21/- dozen.

Less 2½% 30 days.

NOTE.—1/3 size contains 2 extra tablets. The 2/6 size 10 extra tablets.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents—

GOLLIN & CO. PTY. LTD.
(Aspro Dept.)

SLOUGH, Bucks.

Phone - - - Slough 608.

No proprietary right is claimed in the method of manufacture or the formula.



Made by ASPRO LIMITED
Slough, England



Composite Display for Shelves and Recesses.
Printed in Full Colours.



FAIRY DYES

30 SHADES

Have you got A FAIRY DYES' WINDOW CURTAIN?

Already throughout the country retail shops are displaying these window curtains to their great advantage. Not merely does it help them to sell Fairy Dyes and so add to their profit, it also forms a definite magnet of attraction and makes the passer-by stop and look in the window.

This is as it should be as Fairy Dyes want to help all round and while incidentally selling

more Fairy Dyes they want to see their customers prosper.

This is a helping hand—clasp it by sending to-day for a Fairy Dyes' window curtain.

It can be trimmed to fit your window and you will always be glad you took advantage of this offer. It comes to you free and post free, and is a gift you will really appreciate.

Fairy Dyes, LTD.

WELL ROAD, GLASGOW

London Depot: 292 UPPER STREET, ISLINGTON, N.1.

Telephones:
HOLBORN 4695
(3 LINES)

Telegrams:
FORSHAPCO,
HOLB.
LONDON.

**FORD
SHAPLAND
& CO. LTD.**
LABEL &
GENERAL
PRINTERS

FINE ART SHOWCARDS, CARTONS,
ENVELOPES FOR SHAMPOO POWDERS,
CORN SILK, ETC.

"Sol-Vo" Sanitary Paper
in Rolls & Packets.

AGENTS FOR THE REGISTRATION
OF TRADE MARKS.

**G. TURNSTILE
HIGH HOLBORN
LONDON, W.C.1**



CACHETS "FINOT"

(White or Coloured)

With inscriptions in any desired
tint; also Plain or Embossed.
"A distinction all their own."—C. & D.
"Perfection of Cachets."—Lancet.

These Cachets are especially adapted for Headache, Neuralgia
and other powders.

COOPER SON & CO. LTD., 80 Gloucester Road, SOUTH KENSINGTON.
In 17 Sizes to fit the various types of Cachet Machines.

PHOSPHATE OF SODA, Pure

For Food Purposes

ASK FOR SAMPLE AND PRICES.

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, MITSHILL.

Telephone: Giffnock 414 (2 lines).

Telegrams: "Perryope, Nitshill."

SAFE - SURE - SALEABLE

a non-poisonous, non-caustic antiseptic for use inter-
nally and externally in all illnesses arising from micro-
organic infection. Certified so safe that an overdose
is entirely harmless. Popular prices and widespread
advertising have resulted in a steady increase in sales
—display it and get your share.

YADIL

The Antiseptic which is Certified by Public Analysts
and Pathologists as Safe for Internal and External Use

RETAIL PRICES: Liquid or Yadilets (tablet form) 1/3, 3/4,
4/9, 12/6, 22/6. OINTMENT 1/3 per tin. PASTILLES 1/- per
tin. SOAP 1/- per tablet.

YADIL PRODUCTS (1925) LTD.
SICILIAN HOUSE, SICILIAN AVE., LONDON, W.C.1



How are your
Stocks of



PRUNOL

PRUNE JELLY

NATURE'S FRUIT LAXATIVE FOR CHILDREN
AND ADULTS ————— SAFE AND SIMPLE

In Jars = 1/6 & 2/11
Profit on Selling Price 25%

Our great Advertising
campaign has commenced.

*Large spaces (including full and half
pages in various leading Daily and
Sunday papers) are now appearing.*

This advertising is bound to produce numerous
enquiries, and in order to avoid disappointing
your customers, it is earnestly hoped you will
see that your stock is adequate.

Order immediately from your Wholesaler

SHOWCARDS AND BOOKLETS GRATIS ON APPLICATION

PRUNOL PRODUCTS, LTD., 28 BUCKINGHAM GATE, S.W.1

Phone: VICTORIA 3536

Wires: "PRUNOL, SOWEST, LONDON."

SECURELY PACKED IN
STRONG, LEVER LID TINS
(SOLDERED)
PRINTED THREE COLOURS
OR
PAPER LABELLED
'OWN NAME.'

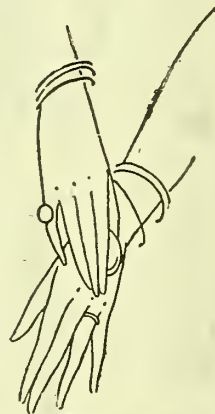
CONCENTRATED
WATERGLASS

SHOW
CARDS
GIVING RETAIL
PRICES
Enquiries Solicited

LOFTHOUSE & SALTMER LTD. - HULL

February Gales mean Mel Rose Sales

February's wind and rain are your constant salesmen if you stock Mel Rose productions. Strong, consistent advertising and 45 years of ever-growing popularity have made Mel Rose Tablets known to thousands as the surest remedy for chapped hands and wind-roughened skin. The season of chapped hands is now reaching its height. See that your stocks are full to meet the inevitable demand. Now is the time to prepare for the warmer but treacherous weather of early spring by laying in a good stock of Mel Rose New Century Cream.



Sheppey's
MEL ROSE
TABLETS

FAMOUS FOR OVER 45 YEARS
MEL ROSE NEW CENTURY
CREAM

Sold in tubes of convenient size for the handbag. Also in attractive jars.
Sole Manufacturers: Messrs. Roberts & Sheppey, 2, Skipton St., London, S.E.



Iglodine.

THE SAFE AND PURE ANTISEPTIC,

And its Kindred Preparations, are Dependable,
Quick-selling and Profitable to the Chemist.

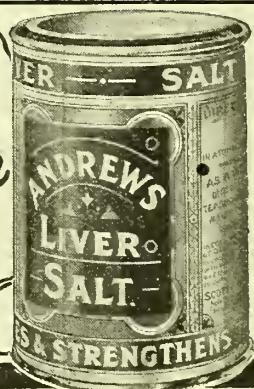
THEY SATISFY BUYERS AND BRING REPEAT ORDERS!

IGLODINE, the Ideal Home Healer, is Highly Recommended by the Medical Faculty, and Retails at 10½d., 1/6 and 3/- per Bottle. IGLODINE Specialities include—EMBROCATION, TOILET SOAP, OINTMENT, CREAM, THROAT TABLETS, SUPPOSITORIES, SHAVING STICK, PASTILLES, NASAL DOUCHE, SALICYLATED: Also FIRST-AID OUTFITS.

P.A.T.A. Photo-Litho Showcards, Window Display Scheme,
Particulars and Prices from

THE IGLODINE Co., Ltd., NEWCASTLE-ON-TYNE.

*The Saline
with the
largest sale
9. & 1/4.*



ESTABLISHED 1793.

The Best and
Safest Infants'
Medicine of
over 130 years'
standing.

ATKINSON & BARKER'S
INFANTS' PRESERVATIVE

Does not
contain
any
Scheduled
Poison.

ROBERT BARKER & SON, LTD., 13 WESLEY STREET, C. on M., MANCHESTER

COLLOIDAL CALCIUM

with "Ostelin" vitamin D

Boxes of six 1 c.c. ampoules

5/- each

Also in 25 c.c. bottles

10/- each

Sales Manager, GLAXO HOUSE
56 Osnaburgh Street, LONDON
N.W.1

This is the latest advance of calcium therapy, specially introduced for intensive treatment, by hypodermic injection, of conditions associated with defective calcium metabolism. The presence of the Vitamin D regularises the assimilation of the Colloidal Calcium, and also prolongs its effect. The colloidal solution of Vitamin D in which the calcium is suspended is equivalent in value to fifty times its volume of cod-liver oil of maximum potency.

A palatable preparation presenting vitamins A, B, C & D



2 sizes only—

$\frac{1}{2}$ -lb. jars, **2/6**; 1-lb. jars, **4/-**

OSTOMALT contains the Vitamin D equivalent of 50 per cent. of cod-liver oil of maximum potency added in the form of "Ostelin" Vitamin D. Ordinary "malt and oil" preparations do not usually contain more than 10 to 16 per cent. of cod-liver oil, and that often of small Vitamin D potency.

OSTOMALT contains an adequate supply of Vitamin A; selected malt extract rich in Vitamin B; concentrated orange juice (Vitamin C); and "Ostelin" Vitamin D. It thus presents all the vitamins required for nutrition, growth, and general health. It is nearly four times as stimulating and nourishing as the finest cod-liver oil and malt extract.

Children find the flavour of Ostomalt attractive and adults prefer it to cod-liver oil preparations, because it causes no digestive troubles.

OSTOMALT

"OSTELIN" VITAMIN D — MALT EXTRACT — ORANGE JUICE

Sales Manager, GLAXO HOUSE, 56 OSNABURGH STREET, LONDON, N.W.1

3.

FABRITIUS, OSLO.



National Committee for
Promoting the Consump-
tion of Norwegian Cod
Liver Oil, Bergen, Norway.

To combat wasting diseases; to accelerate the process of convalescence; to maintain health: Norwegian cod liver oil is a sure and trusted ally which no doctor can afford to disregard.

Thanks to its prolific content of vitamins A and D, Norwegian cod liver oil is a strong adjuvant in the fight against microorganisms that cause colds, pneumonia, bronchitis, diarrhoea and rickets. It has been found of the greatest value in restoring to health arrested cases of tuberculosis. It also helps to maintain a healthy skin action.

There is no efficient substitute for cod liver oil.

A TEASPOONFUL OF
NORWEGIAN COD
LIVER OIL CONTAINS
MORE VITAMINS THAN



ALL THE BUTTER AND
MILK ANY INDIVIDUAL
CAN EAT AND
DRINK IN A DAY

NORWEGIAN COD LIVER OIL

MONSOL

PASTILLES

BRAND



NEW USES FOR PASTILLES MEAN MORE SALES

Monsol Pastilles are sold on a much broader basis than a "sore throat remedy." The advertising is educating the public to use them as a hygienic measure, and their convenience appeals to people who would not be bothered by gargling, etc.

This is NEW BUSINESS—not substituted sales diverted from one line to another, but quite definitely additional turnover.

Monsol Pastilles are therefore, for this reason alone, worthy of your support in every practical way. You will support them no less, we are sure, because they are remarkably efficacious, and representative of the best type of pharmaceutical preparations, selling at a good price, and yielding a good profit.

The time for a profitable display is NOW
Write for special terms to:—

MONSOL DISTRIBUTING AGENCY

168/172, DRUMMOND STREET, LONDON, N.W.1.

Petroleum Jelly

White, Yellow, Amber,
& Ruby Red, for all
Pharmaceutical and
Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street
LIVERPOOL.

523 Salisbury Hse
Finsbury Circus
LONDON.

Deansgate Arcade
MANCHESTER.

Martineau Street
BIRMINGHAM.

Wellington
Chambers
LEEDS.

SITORA REFINING CO. LTD.

Ask for
Quotations
and Samples.

OUR SPECIALITIES:
PARAFFINUM LIQUIDUM B.P.
TECHNICAL WHITE & HALF-WHITE OILS
COLOURED BRILLANTINE OILS

27 MINCING LANE, E.C.3

Royal 2944.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED

IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.
Carnwath Road, Fulham, London, S.W.6

Telephone: Putney 1153 and 1154.

WHO INVITE ENQUIRIES. Telegrams: "Batapo, Walgreen, London."

PETROLEUM JELLIESWHITE, LEMON, YELLOW, AMBER.
RED, GREEN.**WHITE & COLOURED OILS**

YELLOW, GREEN, RED FOR BRILLIANTINE. etc.

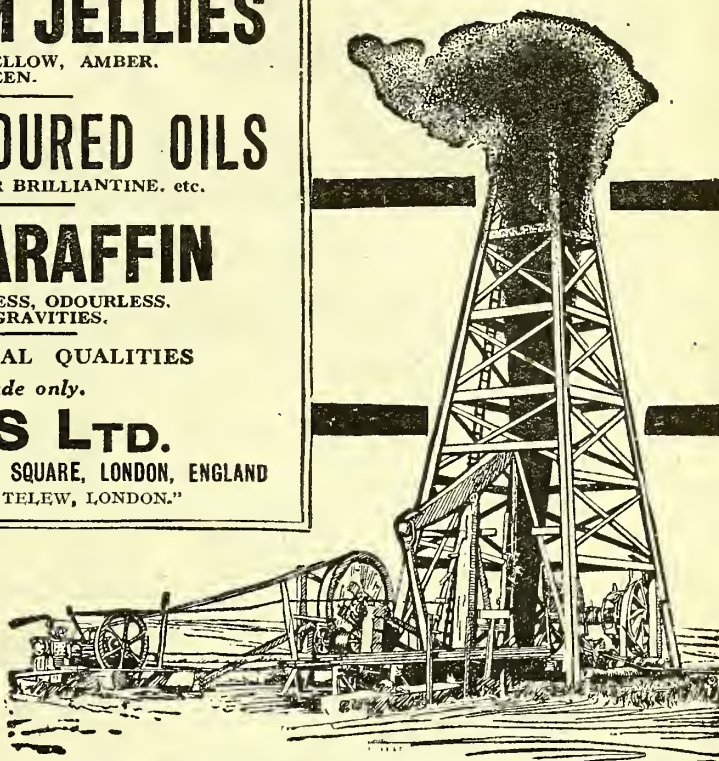
LIQUID PARAFFINCOLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only.***STERNS LTD.**

ROYAL LONDON HOUSE, FINSBURY SQUARE, LONDON, ENGLAND

Telegrams: "CENTUMVIR, TELEW, LONDON."

Bleached
White
B.P.**BEE SWAX***Refined
Yellow
B.P.***POTH, HILLE & CO., LTD.**

6 Lloyd's Avenue, London, E.C.3.

*Works at Stratford, E.***PETROLEUM JELLY**("SALVO PETROLIA")
BRANDTHE PERFECTION OF PETROLEUM JELLY.
MANUFACTURED SOLELY BY**THE DEE OIL CO. LD.****D 23 & 24 EXCHANGE BUILDINGS
LIVERPOOL**TELEPHONE -
CENTRAL 3859TELEGRAMS -
"CESTRIAN"

LONDON OFFICE

11 POULTRY, CHEAPSIDE, E.C.2. PHONE: CITY 8455

**PACKED IN BARRELS, KEGS OR
SMALLER PACKAGES IF DESIRED.**OTHER GRADES OF
PETROLEUM JELLIES, WHITE BASES ETC.
WHITE OILS, B.P. & Technical Qualities
SAMPLES & PRICES ON APPLICATION**OLEUM DEELINÆ (DEE OIL)**
THE UNFAILING CURE FOR ECZEMA

USE

Lidac

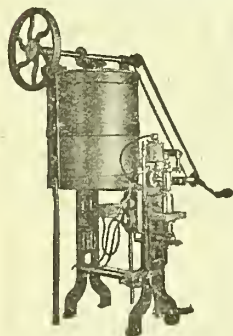
INSOLUBLE

TRANSPARENT PAPER

WHITE, COLOURED, EMBOSSED, PRINTED

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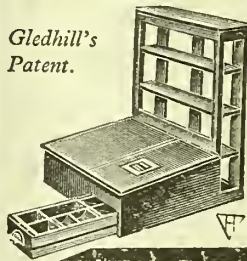
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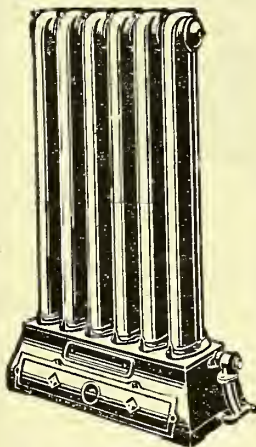
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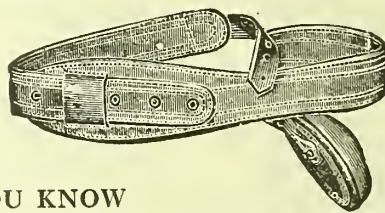
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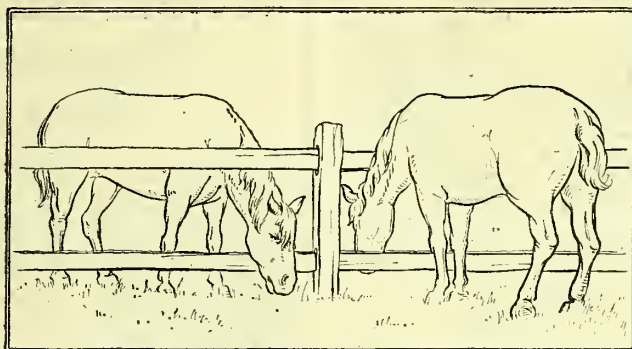
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the grass is just as green on your side of the fence

The grass in the gardens of Buckingham Palace is no more nourishing than the grass in your own garden.

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You may have a turnover of £5,000 a year and we may have one of £500,000, but the greatest effort we put into our business is no greater and has no more actual value than the heart-breaking effort you put into yours.

WHAT WE ARE GETTING AT IS THIS :

On our side of the fence we are working in a big field. We are supplying the personal needs of 7,000,000 women in 42 countries throughout the whole wide world. This number of women use a package of Kotex regularly—*every month*.

But, the grass is just as green on your side of the fence.

You can supply the needs of all or a big proportion of the women in your district if you want to.

BREAK DOWN THAT FENCE.

We are both eating the same grass—that is to say, we are both dependent on the public for our livelihood. There should be no fence between us. We should co-operate in every way to serve the public and increase the value of our common ground.

HOW CAN I DO IT ?

you will ask. Well, that is just a matter of service. If you give the women shoppers

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Put the Kotex Stand loaded with wrapped packages (1s. size one side and 2s. the other) in some place where your women customers can see it. You will find they nearly always help themselves in a casual manner. *Then*, they make other purchases. That's valuable trade to win. Few lines so directly influence the sale of other goods. How many of your lines so directly help to form a habit among your customers of regularly coming to *your* store ?

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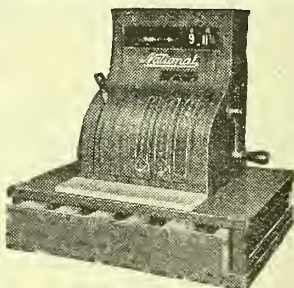
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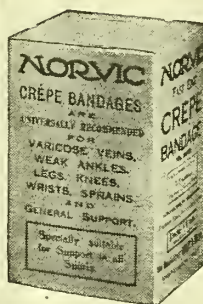
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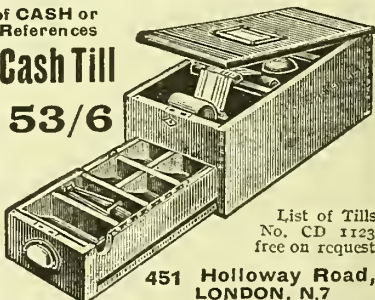
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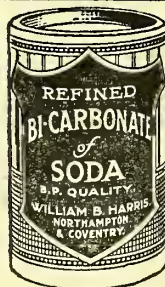
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THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.
LONDON E.C. 4

FEBRUARY 8, 1930

This Supplement is inserted in every copy of The Chemist & Druggist.

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3.—SOUTH LONDON DISTRICT.—General Retail Business, with N.H.I. Dispensing and Kodak Agency; old established; turnover about £2,000; double-fronted shop in main road; estimated value of stock and fittings about £1,000; good living accommodation; 19 years' lease; price £1,500, or near offer.

4.—ESSEX.—General Retail and Dispensing Business; returns last year exceeded £2,350, with gross profit £850 and net profit £710; attractive, well-fitted shop; good saleable stock; excellent house of eight rooms; freehold may be purchased, or lease will be granted; price to be arranged.

5.—BANKS OF THAMES.—Cash Retail Business; returns £1,200 per annum, with scope for increase under energetic management; net profit £324; attractive corner lock-up shop; rent £52 per annum, inclusive; held on lease; price £650.

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7.—LONDON, N.—General Retail and Dispensing Business; established many years; returns last year £3,600; corner shop, well fitted and stocked; living accommodation; held on lease; rent £60; sublet £7 10s.; price to be arranged.

8.—HOME COUNTY.—General Retail and Dispensing Business with small Optical connection; returns £4,300 per annum; this includes the takings from a small branch; long lease; moderate

rental; stock and fixtures estimated to be worth £1,700; price to be arranged; reason for sale, vendor has purchased another business.

9.—HERTS.—General Retail and Dispensing Business, with Wine Licence; returns last year approached £2,600; attractive shop, well fitted and stocked; lock-up pharmacy; rent £120 per annum; new lease; terms, valuation of stock and fixtures plus an agreed sum for goodwill.

10.—METROLAND.—Family Retail and Dispensing Business, with small amount of N.H.I.; returns last year £1,976; gross profit £820; net profit £620; estimated value of stock and fixtures £800; living accommodation; rent £75, rising to £100; long lease; price asked £1,500.

11.—NORTH WALES.—Retail and Dispensing Business, with Kodak Agency; main street position; returns last year £2,622, with net profit about £700; scope for large increase; single-fronted shop; stock and fixtures estimated to be worth £1,400; rent £75 per annum, or property may be purchased; price £2,000; vendor wishes to retire, and in order to effect an early sale is prepared to allow one-third of the purchase money to remain at 5 per cent.

12.—SOUTH COAST.—General Retail and Dispensing Business, with Kodak Agency; returns £3,800 per annum (£800 from Optical); double-fronted corner shop, fitted in mahogany; rent £80 per annum; private house available if required; further details on application.

13.—HOME COUNTY.—Unopposed Light Retail and Dispensing Business; no N.H.I.; established many years; returns £2,100 per annum; extremely good profits; estimated value of stock and fixtures £850; good living accommodation; bathroom; vendor owns the property; price to be arranged.

14.—SURREY.—Light Retail Business with Optical connection; turnover about £1,600 per annum at very good prices; double-fronted shop in main road position; rent £100 per annum; sublet £70; lease about 14 years unexpired; further details on application.

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Extract from "THE SCRIPT," January 1930

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3.—BRADFORD.—Old-established Retail Family Dispensing Business, situated in good-class residential quarter; no near opposition; returns approximately £1,600; premises consist of large corner shop, nicely fitted and well stocked; excellent living accommodation; price, including property, about £2,000. Full particulars on application.

4.—BRIXTON.—For immediate disposal, Light Retail Dispensing Business, with Kodak Agency and scope for Optics; situate in main road; lock-up shop; on lease, with nine years to run, at £80 per annum; beautifully fitted and good stock carried. Further particulars on application. (13)

5.—BLACKPOOL (North Shore).—Occupying commanding position in this popular seaside resort, there is for immediate disposal a Retail Dispensing and Photographic Business, with Kodak Agency; large D. & P. connection; 5 years' lease at £95 per annum; returns at present, which could be considerably increased, £1,200; net profit £420; price for quick sale £850, or near offer. (20)

6.—LONDON, N.—Good-class Retail Business in main road; on lease £60 per annum; returns £1,200; lock-up shop; £650, plus stock at valuation, or offers all at entertained.

Stocktaking and Valuation of Businesses undertaken at moderate inclusive fee. Chemists are invited to consult us in respect of their requirements in connection with sale or purchase of businesses. Chemists in the North are requested to communicate with our Liverpool Office.

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CHEMISTS' VALUERS AND TRANSFER AGENTS,

41 Argyle Square, KING'S CROSS, W.C.1

(One minute from St. Pancras and King's Cross Stations.)

1.—SOUTH COAST.—Well-established Drug Store in best shopping centre of desirable seaside resort; turnover between £2,000 and £3,000; splendid chance for qualified chemist; price, including large freehold corner shop and house, £4,000.

2.—HERTS.—Good-class Family Retail and Dispensing Business; easily worked; good prices; returns over £2,200; net profit £700; audited books; valuable lease at low rent; beautifully-fitted shop; well stocked; valuation terms arranged, about £2,000.

3.—HOME COUNTY (few miles out).—High-class Family Retail, with small Branch; returns about £4,400, increasing; good profits; long lease; excellent stock and well fitted; price £4,250, or first reasonable offer.

4.—BOURNEMOUTH DISTRICT.—Good-class Business in main road position; turnover, £1,400, increasing; modern pharmacy; well stocked; price about £1,000.

5.—ESSEX COAST.—High-class Business, with Kodak Agency, in prominent position; returns over £2,000; large corner pharmacy (lock-up); well fitted and stocked; price £1,300 cash for quick sale.

6.—SUFFOLK.—Light Cash Retail and Photographic Business in main road position of large town; returns £1,000; scope for increase; low rent on lease; stock worth £200; price £350.

7.—NORFOLK.—Old-established Retail, with Wines and Spirits, in prosperous market town; best position; returns £2,900; net profit £618; books audited; price £1,650.

8.—CITY.—First-class Pharmacy for disposal, in excellent position; returns about £3,500; capable of much increase; handsome modern front and good stock; good lease; price £2,000.

9.—LONDON (Surrey suburb).—Old-established Light General Retail in main road position; returns approach £2,000; books audited; house attached; stock and fixtures worth £925; price £1,500, or offer.

10.—LONDON, N.W.—Light Cash Retail, with Kodak and Rexall Agencies; returns last year £2,186; lock-up shop; good stock; long lease; price for quick sale £950 cash.

11.—TOOTING.—Sound Light Cash Retail, in main road position; returns last year nearly £1,950; net profit £590; well fitted and stocked; long lease; price £1,350.

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MANUFACTURING FACILITIES AVAILABLE

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Chemists' Valuer, Transfer Agent & Stocktaker,
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WEST RIDING—Returns £1,400. Lock-up. Fixture & Goodwill £400, stock reduced to any figure desired. DONCASTER, old estab. Chemist's, beautifully fitted, house, rent and rates £86, returns £1,005, easily increased, price s. & f. at v., about £500, only wants seeing. Unopposed country business with good house, returns £2,300, net profit £531. Price £1,000, property £1,200. Others at £850, £450, £300 and £200.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

EAST MIDLAND.—Main road; trams stop at door; Business, nicely fitted and well stocked; only wants seeing; fine corner position, with nice private house, fitted gas and electric, bath, etc.; accept very low price, £300; ill-health cause of sale; good opening for Optician; wide scope for increase. 15/29, Office of this Paper.

GLAMORGAN.—Exceptional opportunity to secure established busy Pharmacy and Optical connection, Wine Licence, Agencies; progressive expanding town; unaffected unemployment; long lease; low overhead expenses; average gross profit last three years £600 (accountant's); owner devoting attention other interests; principals only; bank references; partnership entertained; price £550; stock valuation. 16/1, Office of this Paper.

KENT (near Chatham).—Lock-up Shop on main road in rapidly growing district; newly established; modern fittings; well stocked; gas and electric; £350. Apply P.C.B. 29/20, Office of this Paper.

LONDON, W. (middle-class district).—Takings, under manager, £1,600, including large Camera, Photographic and D. & P. trade; small Dispensing; could be run unqualified; has done much more under owner; lock-up shop; rent £55; 7 years' lease; £850, including stock, about £420. 14/4, Office of this Paper.

LONDON, S.W.—General Retail and Dispensing; main road; returns £1,200, increasing, at good prices; N.H.I. 2,500 per annum; lease 8 years; good house; at present let to cover rent and rates; good clean stock; must sell; price £700, or offer. 15/31, Office of this Paper.

LONDON, S.E.—Old-established Business for sale; large corner shop in main road; electric light; doing £20 per week under unqualified management; good opening for N.H.I.; rent £53 per annum; price for stock, fixtures and goodwill, £800. 16/12, Office of this Paper.

LONDON.—Busy suburb, main road position; Cash Retail Business; returns £40-£45 per week; shop well fitted and fully stocked; large flat over with private entrance; rent £125; sub-let flat £2 per week; price to be arranged; part payment entertained if desired. 17/23, Office of this Paper.

MANCHESTER.—Two established Businesses within a mile of each other; populous residential suburb; the shops (which are on leases at reasonable rents) are well fitted and stocked; one has exceptionally good living accommodation; combined turnover £4,000; net profit £700; price £2,500; owner leaving district; principals or solicitors only. 13/330, Office of this Paper.

MANCHESTER.—Established Business; lock-up shop; well fitted; on lease; turnover £2,600, and increasing; net profit £550; exceptional position in high-class residential suburb; no small trade; chiefly dispensing and toilet goods; accountant's figures; only requires seeing; price £1,500; principals or solicitors only; owner going south country. 13/33, Office of this Paper.

MID-CHESHIRE.—Comfortable living assured with prospects of increasing; present turnover of approximately £1,000; excellent possibilities with N.H.I. Dispensing; bargain at £950 for quick sale; freehold premises (shop and house) inclusive. 18/4, Office of this Paper.

NORTH WALES Coast and market town; good-class Business; central position; Kodak Agency; lock-up shop; turnover £1,400; rent £47; cheap for quick sale. 13/36, Office of this Paper.

SCOTLAND (Dunfermline).—Old-established Chemist's Business for Sale; General Retail and Dispensing; well fitted, stocked; Kodak Agency; living accommodation; property can be bought or rented. Further particulars, 2/40, Office of this Paper.

S.E.—RESIDENTIAL Pharmacy, lock-up shop, well fitted and stocked; turnover for last 3 years average £1,200; rent £60 per annum inclusive; lease optional; sole agency for Kodak in locality; genuine reason for selling; price for quick sale, including stock, fixtures and goodwill, £475. Apply 15/24, Office of this Paper.

SOUTH YORKSHIRE (County Borough).—Would suit young, energetic, qualified man with small capital. *Bona-fide* inquiries only to 12/8, Office of this Paper.

WEST MIDLANDS.—New Pharmacy in large and growing manufacturing and residential suburb; rent £65; stock and fixtures £550. For full particulars apply 17/35, Office of this Paper.

YORKS. (MID.).—Healthy Branch; new fittings and stock; £10 weekly under unqualified lady; population, growing, 4,000; good residential district; no opposition; main road; block of six new shops, lock-up; established 12 months; inability to supervise sole reason for disposal; unique opportunity for registered man; rent and rates £1 week; cost of fittings and stock only £325. "X. Y. Z." 16/14, Office of this Paper.

CHEMIST'S, Chiswick, old-established business, doing £36 weekly; good working-class district; lease 14 years; rent £60; five rooms, etc.; well-fitted shop and dispensary; price £1,200, to include £450 stock (accountant's figures). Sole Agents, J. Cooper & Son, 379 High Road, Chiswick, W.4.

CHEMIST'S Business for Sale; Private and N.H.I. Dispensing, Kodak Agency; double-fronted shop; well stocked; popular seaside resort in South-East Essex; price £900 cash; six-roomed house attached; lease 21 years; rent £132 per annum; present owner retiring through ill-health. 16/28, Office of this Paper.

DRUG STORES for sale, N.W. London; excellent opportunity for "Minor"; living accommodation; rent £78 per annum inclusive; offers invited; with or without stock; best offer secures. 'Phone "Advertiser," Maids Vale 7942, or write 17/26, Office of this Paper.

FIRST-CLASS Chemist's Business for Sale in busy market town, with immediate entry, or as may be arranged. Apply 14/10, Office of this Paper.

OLD-ESTABLISHED Country Business in East Anglia for immediate disposal; takings over £20 weekly; scope for increase; good opening for Optics; good living accommodation; large garden; price for quick sale £600 all at. Full particulars on application to 16/5, Office of this Paper.

RENT and rates £75, let off £91; small Pharmacy, S.W. district; busy main road; takings £1,000, approximately, under management; price £700. 14/11, Office of this Paper.

THE opportunity arises to purchase a sound, old-established, high-class Pharmacy, together with adjoining freehold premises, the whole occupying over 2,000 square feet; central position; average turnover £2,800; Home County. Further particulars, 14/12, Office of this Paper.

TO those with small capital, Middlesex. Light Retail Chemist's Business, 12 miles from City; Kodak Agency and N.H.I. Dispensing; net profit about £250 per annum; very low rent; convenient house; good stock and fixtures; near railway station; good reasons for disposal; price £500, or reasonable offer considered. "Aspirin" 15/39, Office of this Paper.

VILLAGE Drug Stores, West Midlands, returning £25 per week at good profits; no groceries; no opposition; easily worked; qualified man with Optics could easily double; £200 and valuation of stock and fittings. 16/25, Office of this Paper.

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SALE OF CHEMIST'S FITTINGS.

B. NORMAN & SON will Sell by Auction at their Sale Rooms, 5 Little Britain (close to G.P.O.), London, E.C.1, Wednesday Next at One, Chemist's Shop Fittings and Showcases, including Wall Showcases, glass-fronted Counters, Silent Salesmen, Dispensing Counters and Screens, Perfumery Cases and Desks, Cash Tills, Mirrors, Glass Shelves and other items. On view day prior. Catalogue on application.

PREMISES WANTED

WANTED, to rent room over Dentist's surgery, Chemist's shop, or similar business, suitable for small office; within easy distance of Oxford Circus. Please reply to "Radix," 122 Harrow Road, W.2.

PARTNERSHIPS.

MANUFACTURER of high-class Toilet Preparations seeks Partnership in going concern where capital and brains would be mutually advantageous. P.C.B. 28/26, Office of this Paper.

PARTNER wanted to take half share or less in two established businesses with management of one. State capital available first letter; outer suburb. 164/793, Office of this Paper.

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firm in London, calling on every Wholesaler in Great Britain and Ireland six times a year, are in a position to undertake to act as distributors on a Commission basis or some other amicable arrangements.

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AGENCIES.

A TRAVELLER for a firm of Manufacturing Chemists, having a valuable connection in the North of England and now retiring owing to ill-health, is willing to sell his goodwill, with the consent of his firm, to an enterprising man of experience. Replies to 164/791, Office of this Paper.

AGENT required for Scotland for the sale of Camera Cases by manufacturers who have competitive lines in canvas and various leathers, on commission basis. Only those with good connection amongst Chemists and Photographic Dealers need apply. 12/6, Office of this Paper.

AGENTS or Representatives wanted, all over the British Isles, to sell, on commission only, new art line of Powder Puffs; samples small. Write fully, commission expected, and area covered, to 14/7, Office of this Paper.

ALL kinds of Agencies required, Midland Counties; commission basis. 17/25, Office of this Paper.

SITUATIONS OPEN.

RETAIL (HOME).

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

BARNES, S.W.—Unqualified Assistant for good-class Family business; capable Dispenser and Photographic experience essential; salary £3 per week, progressive; usual particulars. Letters not acknowledged in five days respectfully declined. 15/33, Office of this Paper.

BIRMINGHAM.—Qualified lady or gentleman required immediately; suit elderly, infirm, or young lady. Lowest salary entertained, by letter, to "Chemist," 94 Palace Road, Bordesley Green, Birmingham, or 'phone Vic. 1394 or Midland 6414. Possibility of accommodation if necessary; permanent.

EAST MIDLANDS.—Qualified Chemist and Optician wanted as Manager of Branch in small town; age about 35; must be energetic and keen Salesman. Apply, with full particulars of experience, names of references, and salary required, to 17/130, Office of this Paper.

HARROW.—Up-to-date Manager of smart appearance; must possess good merchandising abilities; able to dress smart window; living accommodation available; bonus and commission on results offered. State height, age, wage required, and when available. 16/39, Office of this Paper.

ILFORD, ESSEX.—A sound, qualified Manager (male) wanted for a modern Pharmacy; must be pushing, a good Window-dresser, thoroughly capable and obliging. Apply, stating experience, salary required, age, references (photo if possible), to T. Bellamy, Pharmaceutical Chemist, 2 Tindal Square, Chelmsford, Essex.

KENT.—Qualified Assistant for charge of a small branch; near coast; must be good Counterman and Window-dresser and have sound recent references. Please send photo and particulars, 15/30, Office of this Paper.

LIVERPOOL.—Immediately, unqualified Assistant of good appearance and address; must be good Window-dresser, quick, courteous and obliging Salesman, and efficient Dispenser; knowledge of Photography. Full particulars of experience, age and salary required to W. J. Tristram, 64 Whitechapel, Liverpool.

LONDON, N.—Smart, young, unqualified Junior Assistant (male) wanted; competent, with good Counter, Dispensing and Photographic experience. Apply, stating full particulars of age, height, experience and salary required (outdoors), to Dow Brothers, 44 Seven Sisters Road, Holloway, N.7.

LONDON, S.E. (pleasant suburb).—Young, competent male Assistant wanted immediately; must be smart and reliable Dispenser; previous London experience an advantage. Full particulars regarding age, salary required, etc., in first letter, please. Applications not answered within few days respectfully declined. 17/9, Office of this Paper.

LONDON, W.—Required, Junior Assistant, not under 21, for Ealing or Streatham. Please give full particulars, age, height, experience, references and salary to W. A. Weston, 8 Sandringham Parade, Ealing, W.5.

NORTH LONDON.—Qualified man, about 35-40, for brisk Counter trade and N.H.I. Dispensing; must be willing, obliging and courteous; permanency. Give full particulars to P.C.B. 28/39, Office of this Paper.

NOTTINGHAMSHIRE.—Qualified Assistant needed; must be capable Window-dresser and obliging Counterman; one with J.C.Q.O. would be considered. Please state salary required and give experience. 15/400, Office of this Paper.

NOTTINGHAMSHIRE.—Young, energetic, qualified Manager required for branch; industrial area. Please state experience and remuneration required. 13/40, Office of this Paper.

SAINT BARTHOLOMEW'S HOSPITAL, Rochester, Kent.—Lady required as Dispensary Attendant; previous experience not absolutely necessary; no salary, but small remuneration and good opportunity to learn Dispensing. Applications, with references, to be addressed to the Dispenser.

SOUTH WALES.—Smart, qualified Manager required for Family business; must be married, keen and energetic, and have had experience in similar class of business; house available; splendid opportunity for a man who is not afraid of work and is desirous of settling down to a really good job; Welshman preferred. 164/789, Office of this Paper.

WEST OF ENGLAND.—An opportunity occurs for an experienced, qualified Chemist to acquire an interest in a country town Business with management and residence, the proprietor wishing to retire from retail business; £500 will purchase half share, or less will be considered at a proportionate figure. Apply 12/10, Office of this Paper.

A GOOD Manager is required for a well-established business in Glamorgan; applicants must be qualified, preferably Welsh, and have had experience in a Family business. This position offers enormous scope for a good steady man, and the successful applicant will be given a good salary and an interest in the turnover of the business. 164/788, Office of this Paper.

A UNIQUE opportunity presents itself for a smart qualified Chemist to take charge of a business in South-West London. The position calls for a man of unquestionable character, up-to-date ideas, well versed on the Toilet side of the business, and one who is prepared to put energy and enthusiasm into his work. All details, please. 164/785, Office of this Paper.

APPLICATIONS are invited for the Managership of a very good business in Monmouthshire; very busy middle-class trade, with Wines and Spirits, Surgical Appliances, etc.; applicants must be married, and have had experience in similar business; good salary, interest in turnover, and house. 164/787, Office of this Paper.

At once, unqualified Assistant, not over 30, for high-class Dispensing business; must be good Dispenser; females and elshmen need not apply. Apply Manager, E. B. Stamp, 29 High Street, Hampstead. Applicants not answered by Thursday declined.

BRANCH Manager required for single-handed Family Dispensing business near South Coast; must have undeniable references and good-class, all-round experience; not under 26; interview essential; permanent post for conscientious man with ability. Full particulars, age, height, salary, to 17/28, Office of this Paper.

CHEMIST wanted, experienced managing and buying. State age and salary required to P.C.B. 29/19, Office of this Paper.

RIGDEN, Pharmacist, Harrow, wishes to thank all those who replied to his advertisement in last week's issue, and desires to say that the position is now filled.

UNIOR Assistant required for good-class Family business in N.W. suburb; one thoroughly experienced in Private Dispensing. State age, experience, salary required, and when disengaged in first application. T. A. Taylor, 8 Hendale Avenue, W.4.

LADY Assistant required; unqualified; N.H.I. Dispensing and Counter. Apply February 10-11, afternoon, in person, to Bewells, Ltd., 101 Leather Lane, Holborn, E.C.

LADY Assistant, 30 to 35, with good knowledge of Toilet Department, also used to Drug Counter, live in, wanted by Chemist in North London. State salary, with usual particulars, to 164/796, Office of this Paper.

LADY Assistant; unqualified; Dispensing and Counter; used to N.H.I.; good reference essential. Inquiries to Kudish, Chemist, 115 Cannon Street Road Commercial Road, E.1.

QUALIFIED Assistant, middle-age, for busy London, W.C., cash business; busy thoroughfare; keen Salesman and Window-dresser; good all-round experience; to commence immediately. Full details, salary required, age, experience, and references. Apply P.C.B. 29/2, Office of this Paper.

QUALIFIED Assistant wanted (lady or gentleman) for middle-class cash business; Photographic and N.H.I.; good Window-dresser essential. Apply, letter only, with usual particulars, 13/29, Office of this Paper.

QUALIFIED man required to manage small branch in South Yorkshire colliery town. State terms and full particulars. 164/792, Office of this Paper.

QUALIFIED Manager, age about 35, experienced and alert, required for branch shop in East Midlands town; must be a keen and tactful Salesman. Give details of past experience, names of references and salary. Apply 17/15, Office of this Paper.

QUALIFIED lady wanted to develop and manage N.H.I. Dispensing in an already established Pharmacy owned by a lady; could live in if desired; willing to deposit £50 in company shares. Write to Mrs. Jay, 17/14, Office of this Paper.

SMART Junior male Assistant, age 19 to 22, required immediately. Apply Linsley's, Chemists and Opticians, 308 Earl's Court Road, S.W.5.

SMART Qualified Manager required to take charge of a good-class business situate in Midland health resort; this is a splendid opportunity for a young married man with ideas and initiative, who has had first-class experience; pleasant house; good salary and excellent prospects for the successful applicant. 164/785, Office of this Paper.

UNQUALIFIED; under 35; large town, Yorkshire; an exceptional and permanent position open to a man of first-class experience for Counter work. Age, height, married or single, salary required, where apprenticed and full details, including dates of experience in first letter, with copies of recent testimonials and photo. 164/783, Office of this Paper.

WANTED. Improver or Junior for Light Retail; suit one studying. State full particulars, salary required, etc. Barker, Chemist, Burnham, Bucks.

WANTED, qualified Chemist (male or female); London, S.E. district. Particulars of experience, etc., to 17/10, Office of this Paper.

WHOLESALE.

LANCASHIRE AND YORKSHIRE.—A well-known Pill and Tablet House require the services of an active and competent Salesman to work and extend existing connection; the position offers excellent prospects, and applicants are requested to give full details in first letter, in confidence, as to age, experience, territory covered, salary required and when available. 164/790, Office of this Paper.

OLD-ESTABLISHED firm of Manufacturing Chemists in London requires the services of an energetic Pharmacist with a view to his taking over the general management; must possess initiative and organising ability and some experience in the Wholesale; good prospects for the right man. State age, previous experience and commencing salary required. Communications treated in confidence. Write to 164/784, Office of this Paper.

LONDON Wholesale House requires a smart, young, energetic Traveller, with connection and car, for the West of England and South Wales. Apply "Spartan," 163/767, Office of this Paper.

AN experienced Traveller is required in the London area to increase the sales of a largely advertised line of Pharmaceutical and Toilet Products; applicants should be of good address, with references that will bear the strictest investigation. State age and particulars of past experience in calling upon Retail Pharmacists to 163/779, Office of this Paper.

ACTIVE Salesman required, with established connection amongst Chemists, to travel with new Veterinary Preparation; liberal commission. Apply, giving full particulars, to Box 5416, "A.P.S." 6 Bucknall Street, W.C.2.

CAPABLE Capsule Maker required, accustomed to working to own formula; machine and hand work. Applicants should state age and wage required, and give full details of previous experience. Good references essential. Apply 16/20, Office of this Paper.

COUNTERHAND in London Export House, experienced in Wets, Drys or either. Give particulars of age and previous situations (by letter) to 164/781, Office of this Paper.

IMPORTANT Manufacturers of Medical and Surgical Specialties and Dressings require high-grade Representative for Hospital sales and propaganda work; previous experience of detail work among Hospitals and Doctors, or as hospital superintendent highly desirable. Write, giving fullest particulars, age, education, experience, salary required, when free, etc. All applications will be treated in strict confidence. 164/795, Office of this Paper.

PART- or whole-time Representatives required, London and Northern Counties, for Surgical Rubberware of all descriptions; commission 10% to 20% and expenses after trial; excellent Chemist connection essential. 163/778, Office of this Paper.

PILL MAKER.—A thoroughly competent man in making and coating from beginning to finish and having a knowledge of best machinery wanted by a Wholesale Drug House in Yorkshire who purpose adding this department. Full particulars (experience, references, age, etc.) to 12/9, Office of this Paper.

PROCESS Worker, in London House, for Ointments, Syrups, Distilling, Compounding, Tinctures, etc. Write particulars, giving age and previous experience, to 164/780, Office of this Paper.

REPRESENTATIVE required for first-class Perfumery House; London district. State age and experience. Apply P.C.B. 29/3, Office of this Paper.

REPRESENTATIVE (qualified preferred) required, with experience among the Dental Profession, Chemists, etc., in Northern Ireland and Free State; capable and energetic man for well-known pharmaceutical products. Write, giving fullest details of experience, stating age, salary required, etc., to 164/794, Office of this Paper.

REPRESENTATIVE for London; Drugs and Packed Goods; experienced. Give full details of experience and salary required. 164/798, Office of this Paper.

REPRESENTATIVES required for all parts of United Kingdom, with good Chemist and Stores connection, Tonic side line with big prospect; commission basis. State area covered, commission and connection. P.C.B. 29/18, Office of this Paper.

SURGICAL Cotton Manufacturers require a first-class Salesman for all kinds of Cottons, Gauzes and Dental Specialties; must be well known to Wholesale Houses. State full particulars, in confidence. 15/15, Office of this Paper.

TRAVELLER required for Lancashire to sell as a side line well-known Face Creams, etc.; payment on commission basis only. Apply 164/782, Office of this Paper.

W. A. WHARRAM (1929), LTD., Wholesale Chemists, Leeds, require the services of an experienced Representative to take up connection with Medical Men, chiefly in South Wales district; knowledge of Surgeon's trade essential. State age, experience, salary, etc. 34 Lady Lane, Leeds.

(COLONIAL, INDIAN AND FOREIGN.)

RHODESIA.—Qualified Assistant; age 24-28; experienced; temperate; splendid opportunity progressive man; three years' agreement; salary 1st year £50 per month; annual increase; passage paid out. Apply, with photograph and copies testimonials, "MH/Export," S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.1.

SITUATIONS WANTED.

RETAIL (HOME).

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

A.A.A.A.—QUALIFIED, 26, abstainer, desires engagement, any capacity; excellent all-round Dispensing, Counter and Photographic experience; hard worker; excellent references; Locum or permanency; Northern Counties preferred; free now. "Pharmacist," 86 Louis Street, Chapel-town Road, Leeds.

A.A.A.A.—MANAGER, 28, qualified, desires post in Central London (previous experience); Window Dressing, Display Work, Photography; conversant with Continental Perfumery and Proprietaries; excellent references; satisfaction guaranteed. "Mex," 78 Chadwin Road, E.13.

A.A.—ASSISTANT; 23; Dispenser, Counter-hand; trustworthy and obliging; salary £5; well recommended; disengaged when required. 17/6, Office of this Paper.

A.A.—SMART Qualified (Scot); 22; all-round experience, Dispensing, Counter, Window; abstainer; disengaged. Apply 18/2, Office of this Paper.

A.—QUALIFIED, energetic young Scot seeks post; excellent references; good experience; courteous. Apply 18/10, Office of this Paper.

A CAPABLE woman M.P.S. (middle-aged) desires post; excellent references. 15/27, Office of this Paper.

A CAPABLE, unqualified Assistant and Stocktaker seeks permanency. Pratt, Melbourne Cottage, Tiverton, Devon.

A CAPABLE, qualified Assistant, 23, seeks post where initiative and hard work required; excellent references; disengaged; London and district. Moss, 89 Oshaldeston Road, N.16.

A CAPABLE Qualified Pharmacist; experienced and successful manager; Locum or permanency. 16/17, Office of this Paper.

A COMPETENT young lady, unqualified, desires post; good all-round experience and completed course for Part II; tall; good appearance and manner. Lee, 10 Charlton Street Llandudno, North Wales.

A GENTLEMANLY Qualified Assistant, 26, with London and Continental experience, desires permanency; good-class Dispensing and Counter. "M.P.S.," 17/11, Office of this Paper.

A QUALIFIED lady desires situation; Locum or permanency; good experience Dispensing, Counterwork, Photography Window-dressing; knowledge Agricultural work; well recommended; disengaged. State particulars and salary, Allison Hazelrigg, Keswick.

A QUALIFIED Chemist; excellent all-round experience; 40; good Dispenser and Prescriber; permanency or locum 17/35, Office of this Paper.

A N experienced Chemist, F.S.M.C., J.C.Q.O. (27), 9 years London and provinces, capable Manager, Window-dresser and keen Salesman, good Photographic knowledge, at liberty desires position any large city. 15/31, Office of this Paper.

A S temporary or permanent; thoroughly experienced (M.P.S.) good Dispenser, accustomed rapid Panel, and Counter elderly; active; abstainer. "Pharmacist," c/o Mr. Eric Chemist, 122 Brayards Road, Peckham, S.E.

A ASSISTANT; unqualified; 20; 5 ft. 10 in.; good appearance; brisk Counter; knowledge French; first-class and Pan Dispensing; Photographic and Window-dressing experience "C.," 44 Turneville Road, West Kensington, W.14.

A ASSISTANT, 23, unqualified, good experience in Dispensing Window-dressing, Photographic, Truss Fitting, slight knowledge of Optics, used to quick Counter, reliable in every respect seeks permanent situation. Hurford, 29 Newlands Avenue Southampton.

A ASSISTANT or Locum; Dispensing, Counter, Photograph experienced; active; unqualified. "K.," c/o Hadfield, 108 Butcher's Road, Custom House, E.

A ASSISTANT; unqualified; free; 11 years' all-round experience energetic and trustworthy. Tuck, 71 Wellesley Road West Croydon, Surrey.

A ASSISTANT; unqualified; experienced; temporary or permanent; London; can manage. "Statim," 72 Tremad Road, Clapham, S.W.4.

A ASSISTANT; unqualified; middle-aged; permanency; good all-round experience; reliable Dispenser; disengaged. "Sma," 29 Chesham Road, Kingston-on-Thames.

A ASSISTANT; 21; passed Part I; 5 years' experience; Dispensing, Window-dressing, Counter; free now. D. Neill, 68 Holme Road, West Bridgford, Nottingham.

A ASSISTANT; qualified Pharmacy and Optics; 7 years' good business experience; highest references; capable; responsible position; abstainer. "M.P.S.," 27 Horsemarket, Northampton.

A ASSISTANT; unqualified; capable; good references; permanency; married. "Phone Lee Green 1544, or write "C.," 15 Sandrock Road, Lewisham.

A ASSISTANT, qualified, 24, desires position; accustomed high-class Dispensing and Counter. 8 Patrick Road, West Bridgford, Notts.

A ASSISTANT, unqualified, 22, good appearance; Northern London experience, excellent Window-dresser, etc., desired post in Torquay district; free in one week. "G. T.," 7 Gloucestone Avenue, Wood Green, London, N.22.

A T liberty, thoroughly experienced M.P.S.; rapid Dispensing Locum (any distance) or permanency, with or without living accommodation; moderate salary; recent references. "Statim," 156 Lower Clapton Road, E.5.

B BRANCH Manager; qualified; 16 years' provincial-London experience; undeniable references; immediately available your locality. "G. W. A.," 55 Chamberlain Road, Edmonton N.9.

B BRANCH Manager (Scot); qualified; 35; keen Window-dresser; tactful Salesman; experienced; West End and provincial accustomed buying and control of staff; London preferred; interview; freedom one week by arrangement. 17/18, Office of this Paper.

C APABLE, unqualified Assistant desires change; 5 years' sound experience, Dispensing, Counter, Photography. Apply 10/40, Office of this Paper.

C APABLE, unqualified, married Assistant, tall, Scot, over 6 years Counter, Dispensing, Photo, desires permanency; years recent berth; disengaged; highest references; photo Johnstone, c/o Relph, Chemist, Stevenage.

C APABLE experienced Assistant seeks post; good Salesman; active, obliging and courteous; good appearance; address; unqualified; disengaged. 18/1, Office of this Paper.

C HEMIST'S Assistant seeks post, in or near Brighton; Marmery, Newhaven, Sussex.

C HEMIST, 24, seeks position in the North; at present manager in London. 16/30, Office of this Paper.

D EVON, OR SOUTHERN COUNTY.—Permanent position with good prospects, required by young ambitious pharmacist; country district preferred; thoroughly trained and experienced. 7 Buttermere Road, Bolton, Bradford.

D ISENGAGED by arrangement; Pharmacist (male); experienced; full or part time, Locum or permanency. "Pharmacist," 98 The Grove, Ealing, W.5.

D ISPENSER, unqualified, 47, married, 10 years with Private Practitioners, 10 years' Hospital experience, 5 years' Dispensing, highly efficient, excellent personal references, desired post in Hospital, with Private Practitioner, or Wholesale. W. 176 Waller Road, New Cross, S.E.

DISPENSER (male), two evenings weekly; 8 years' high-class experience; London district. 13/28, Office of this Paper.

DURHAM COUNTY.—Part I, 20, requires situation as Junior Assistant; 4½ years' experience, Dispensing, Counter and window-dressing; excellent references. Walker, High Street, St. Cornforth, Co. Durham.

ENGAGEMENT wanted, Manager or Assistant; unqualified; 58; active; thoroughly trustworthy; Prescribing speciality; nominal salary. Ewens, 58 Hamilton Street, Cardiff.

EXPERIENCED lady Dispenser seeks post; Doctor, Chemist or Institution; capable; used to country shop; Agricultural and Horticultural. C/o Chemist, Wellingham.

If you are needing an unqualified Assistant, either temporary or permanent, town or country, write Webster, 24 Parliament 1, Hampstead. I am 25 years of age, tall, of good appearance, with excellent references and sound experience; now engaged.

IMPROVER seeks situation in modern pharmacy; excellent Counter experience; Dispensing; served apprenticeship with milky Chemist; age 22; S.E. or S.W. London preferred. am, 32 Lansdowne Road, Purley.

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JUNIOR; good experience and references; Chester or district preferred. Evans, Medical Hall, Penmaenmawr.

JUNIOR; 22; first-class Dispensing experience; disengaged. C. Hunter, 7 Redburn Street, S.W.3.

LADY Dispenser, 24 (Hall Certificate), experienced Counter, wants relief work, Wednesday evenings and one other even if possible, in London or S.W. suburbs; good references. 15, Office of this Paper.

LADY Dispenser (Hall qualification), wishing to gain experience, seeks situation with Chemist. Bruford, 83 County d, Swindon.

LADY Dispenser, unqualified, twelve years' high-class experience, Dispensing and Counter, desires change; Doctor or mist; excellent references. 17/33, Office of this Paper.

LOCUM or part-time; disengaged; qualified; excellent references. Sewell, 49 Gubyon Avenue, Herne Hill, S.E.24.

MANAGER or Assistant, 37, single, desires permanency or Locum. Smith, 72 Strahan Road, E.3.

MANAGER or qualified Assistant open; married; capable; energetic; trustworthy; moderate salary. Reply "Porta," 5, Office of this Paper.

MANAGER or Locum, qualified, seeks progressive post; well experienced; excellent references; abstainer. Wood, 33 on Road, West Croydon.

MANAGER; qualified; disengaged February 8; aged 38 years; excellent references; abstainer; capable and industrious. "Pharmacist," 16 Blacklands Road, Catford, S.E.6.

MANAGER, -qualified, married, keen and energetic, satisfactory references, disengaged, thoroughly trustworthy and experienced in all branches retail, requires permanency in good pharmacy; succession entertained; interview given. 16/36, Office of this Paper.

MANAGER (qualified), experienced, 28, tall, meantime engaged in Scotland, desires responsible position in London ring good prospects; previous London experience; good references. 18/5, Office of this Paper.

M.P.S., 25, gentlemanly appearance, Retail, Wholesale, Hospital and Continental experience, desires responsible post (any capacity); references will bear strict investigation; disengaged. 13/37, Office of this Paper.

M.P.S., 27, available for part-time work; abstainer; energetic; excellent London experience and references; S.W. district preferred. P.C.B. 29/21, Office of this Paper.

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PART-TIME or Relief; chiefly Dispensing preferred, but much experience other branches; inexpensive. "K," 32 h Street, S.W.4.

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QUALIFIED seeks situation as Branch Manager or Senior; young, tall, reliable, and energetic; good all-round experience; excellent references; London or district preferred. emist," 5 The Crescent, Maidenhead.

QUALIFIED seeks position; Hospital and Retail experience; Counter, Dispensing, Photographic. Miss Roach, Church e, Oldbury, Bridgnorth, Shropshire.

QUALIFIED; Scot; 23; Locum or permanency; good references. "M.P.S.," 11 Chaucer Road, Herne Hill, London, 24.

QUALIFIED, 27, desires permanency in West London; Manager or Assistant; 8 years' good all-round experience, ding London; free March 10. "Ellis," 86 St. George's e, Victoria, S.W.1.

QUALIFIED; Manager; Assistant; Locum; trustworthy; competent; disengaged; tall; excellent experience and references; anywhere. Perry, 16 Highborne Avenue, Bradford Moor, Bradford.

QUALIFIED Locum or permanency (32); good experience as Assistant and Manager; Dispensing, Counter, Photography. "Chemist," 50 Grove Lane, Camberwell, S.E.5. Tel. 4449 Rodney.

QUALIFIED, 22½, requires position as Assistant in good-class Pharmacy; moderate salary. Llewelyn, Duffryn House, Duffryn Rhondda, Port Talbot.

QUALIFIED lady desires post, Locum or permanency; London; good experience and references. Culverwell, 44 Queen's Gate Terrace, Kensington, S.W.7.

QUALIFIED, 30, desires permanency; 5 years own business; 15 years' experience; good Dispensing; active, tall and smart appearance; disengaged. C., 259 Stapleton Road, Bristol.

QUALIFIED Assistant or Manager; 24; experienced all branches; good references; Lancashire or West Yorkshire preferred. "Chemist," 12 Cameron Street, Burnley, Lancs.

QUALIFIED Locum or Manager; competent; reliable; over 20 years' varied experience, mostly West-End; disengaged. "Pharmacist," 81 Camden Road, N.W.1.

QUALIFIED, young, seeks position as unqualified to gain other than good-class apprenticeship experience. "The Manse," Fordham, Ely, Cambs.

QUALIFIED; 25; Public School; tall; all-round experience, Counter, Dispensing, Window Display, Photography, Secretarial; undeniable references; able to take charge; London preferred. Roberts, "The Manse," Cowbridge.

QUALIFIED; 24; energetic; all-round experience, London and provinces; free now. 15/28, Office of this Paper.

QUALIFIED desires permanency; middle-age; wide experience; Midlands preferred; excellent references; moderate salary; disengaged. 15/37, Office of this Paper.

QUALIFIED lady, disengaged, with high-class Dispensing, Counter, Photographic experience, desires post in or near London; Locum or permanency. 17/2, Office of this Paper.

QUALIFIED Manager, 30, married, desires management; Midlands or West; free one month; managing near London now. 17/4, Office of this Paper.

QUALIFIED (male), 23, with first-class training, seeks further experience; London or Leicester district preferred. 17/15, Office of this Paper.

REQUIRED, three or four days weekly, by arrangement; thoroughly experienced Dispensing, Counter; unqualified; competent to take charge. "Bientot," 15/39, Office of this Paper.

SMART, unqualified Assistant, excellent Window-dresser and Salesman, first-class experience, requires post; Midlands preferred. "A.C.," Greatham House, Grosvenor Road, Skegness.

SOMERSET or Devon Coast preferred; unqualified Assistant; Public School; experienced; active; energetic; age 25; height 6 ft.; Counter, Dispensing, Photography; recommended by former employer as honest, sober, reliable; disengaged February 10. Hilton, 8 Barrack Street, Bridport.

TEMPORARY position or relief work required; qualified; 24; high-class experience; London, Midlands or Manchester. 8 Patrick Road, West Bridgford, Notts.

THOROUGHLY efficient Dispenser-Book-keeper (male) desires post; strictly sober, honest; excellent references. "R.," "Dunkery," Cherry Tree Lane, Rainham, Essex.

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UNQUALIFIED Lady Assistant, thoroughly experienced, requires temporary post or locum work until April 5; salary £2 per week. 18/9, Office of this Paper.

YOUNG Assistant, aged 22 years, requires situation in a good pharmacy; experienced in Dispensing and Counterwork. Apply A. Parkes, 83 Cowper Road, Hanwell, W.7.

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ADVERTISER, 25, desires position as Representative; strong connection London and South Coast; Drugs, Perfumery, Specialities; would consider any ground; keen salesman; salary and expenses. 15/58, Office of this Paper.

ADVERTISER, resident Southampton, having good Sundries connection amongst Chemists and Hairdressers within 70 miles' radius, desires to represent first-class Manufacturing House who has some connection on ground. 17/21, Office of this Paper.

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REPRESENTATIVE-PHARMACIST, energetic Salesman, wants Proprietaries or Toilets, on commission; Lancs, Cheshire and North Wales. 16/8, Office of this Paper.

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A BROAD—M.P.S. requires situation abroad, preferably South America; slight knowledge of Spanish; age 25; height 5 ft. 9 in.; as Manager or Traveller; at present managing shop for large firm. 17/16, Office of this Paper.

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FOR Sale, complete Mahogany Fixtures of Chemist's Shop, comprising of (1) two nests of Drawers (drug), 12 ft. x 3 in. and 4 ft. by 3 in.; (2) Wall Fixtures, one with clock and two mirror-fronted cupboards, 18 ft. long by 4 ft., the other 5 ft. long x 4 in., cupboard below; (3) two front Counter Cases, 4 ft. long x 1 ft. deep x 1 ft. high, mirrored at back; (4) one Desk Case (show), 5 ft. x 2 ft., three smaller ditto; (5) Mahogany Counter, cased in front, 12 ft. x 2 ft. x 3 ft.; (6) one Wall Case, 9 ft. x 9 ft.; (7) Silent Salesman, 5 ft. high, 2 ft. square; (8) two other Glass Cases, 2 ft. x 14 in.; (9) two complete Window Enclosures, 8 ft. x 10 ft.; (10) four pear-shape Carboys, 10 gallons; (11) about 120 Shop Rounds, all in good condition. No reasonable offer refused for whole or part of above. Apply J. P. Chantler, Ltd., Chemists, Luton, Beds.

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